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Volume 155 No. 13 March 28, 1949

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Oil, Paint and Drug Reporter

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OIT Eases Controls On Various Chemicals

Export controls on certain antimony, bismuth, lead and coaltar chemicals were eased on March 18 in an action announced by the Department of Commerce through its Office of International Trade.

Several of the chemicals were removed from the positive list of commodities in short supply and no longer require validated export licenses except for shipments to Europe and adjacent areas (group "R" countries). These include liquid and solid bismuth salts and compounds in dosage forms, lead chemicals other than dry red lead and litharge, and tar acid oil.

Export of other chemicals in the group are no longer limited by quota restrictions, though validated licenses are still required to export them to all destinations. These chemicals include antimony oxide and sulphide, bismuth compounds in bulk, crude and refined coal tar, dry red lead and litharge, crude and refined naphthalene, cresylic acid and cresols.

In the same action battery oxide was returned to the positive list and made available for export without quota limitation. This has been done to put battery oxide under the same regulation with dry red lead and litharge to prevent the uncontrolled export of the latter items as battery oxides.

In general, the action was taken, OIT officials said, because of an improved supply of all the chemicals included and because of contracting markets in the dollar-short countries. It is in line with the Commerce Department's policy of relaxing export controls as the need for them decreases.

Copper Import Tax Suspension Approved

The senate voted its approval on March 18 of H. R. 2313 to continue the suspension of import taxes on copper and copper products for one additional year until March 31, 1950.

The bill differs from the form in which it previously had been passed by the house in two respects:—As passed by the house the bill would have continued the suspension for two years and the senate reduced this to one year; the senate also exempted from the suspension composition metal provided for in paragraph 1657 of the Tariff Act of 1930 which is suitable both in its composition and shape, without further refining or allowing, for processing into castings. This is in addition to copper sulphate which is exempt from the suspension.

Because of the senate changes, the bill must go back to the house for further action before it is sent to the White House for the President's signature.

Lemon Oil Cost Probe Requests Refused by U. S.

The Tariff Commission has announced the dismissal of the petition of the fruit growers' exchanges for an investigation of costs of production here and abroad of lemons and lemon oil under section 336 of the tariff act of 1930. The dismissal does not prejudice the right to apply for an investigation at a later date.

Lemons are presently dutiable at 2½c. per pound under paragraph 743 of the tariff act and lemon oil at 25 percent ad valorem under paragraph 58. Neither rate has been changed since the original enactment in 1930. However, the two commodities were placed on the list for possible tariff reductions in the forthcoming trade agreement negotiations in Switzerland next month.

Petroleum Exports Eased

Easing of export controls over certain liquid petroleum items was announced on March 21 by the Department of Commerce through its Office of International Trade.

Effective April 1, the export of aviation gasoline, other motor gasoline, kerosene, gas oil and distillate fuel oil will not be subject to quota limitations. The action removes the quantitative second quarter quotas announced for these items in Current Export Bulletin No. 510, dated February 11, 1949.

Metals Export Quotas Issued for April-June

The Office of International Trade has announced the following export quotas for the second quarter for certain nonferrous metals and their products:—

Scrap copper, 1,000 short tons; lead ore and lead scrap, open-end; lead bars and pigs and lead anodes, 650 short tons; antimonial lead 200 short tons; lead foil and lead-tin foil, five short tons; tin tubes, four short tons and licenses will be issued against this quota only for tin tubes to be used for certain medicinal and pharmaceutical purposes in accordance with order M-43; tin foil, open-end; tin metal in ingots, pigs, bars and so forth, forty-two tons; tin scrap and waste, open-end; zinc cast in slabs, pigs or blocks, 500 short tons; antimony and antimony ores and concertrates, open-end; cadmium alloys, open-end; babbitt metal dross and scrap, open-end; aluminum, 18,000 pounds; soder, 500,000, pounds, and cadmium metals, 200,000 pounds.

Olive Oil Imports Investigation Asked

The Olive Advisory Board of San Francisco, Calif., has filed a petition with the Tariff Commission for an investigation of imports of olive oil, in all size containers, which are now subject to duties under paragraph 53 of the tariff act of 1930. The purpose of the request is for a commission finding, under section 336 of the tariff act, for an increase in present duties. No action has been taken on the petition as yet, it was announced by the commission March 22.

Price Trend Takes a Dive

Receding price views in the majority of the divisions of the markets for chemicals, oils and drugs pulled the general price level down markedly last week. Price reductions in oils and fats, fatty acids, and glycerin were especially severe. Cuts in lead-derived pigments, metallic zinc, crude naphthalene, heating oils, tartrates, and streptomycins were substantial. Two-way movements in egg products, milk products, and botanical materials were heavier on the downside. Heavy chemicals were quiet, but firmness was not a general characteristic. The one exception to the prevalent weakness was the slightly upward two-way movement in essential oils.

The overall index number was cut 1.4 points. It was 9.5 points below the comparable 1948 mark and had dropped 6.1 points since the first of this year.

The outlook is for lower quotations on zinc salts and pigments. Some alkyl driers and plasticizers were cut; others are said to be in line, also lead driers. Cresols and some related materials are to be reduced this week. The new quarter was expected to bring other cuts in coaltar derivatives.

Production programs showed both ups and downs. In some ways it was strange that increases were the more prevalent. There appeared to be some evidence to support the belief that demand in general would pick up in the coming quarter. One of the biggest checks on such a movement is the expectation, or wishful thinking, that some important materials are going to be cheaper before long.

OPD Price Index

The Oil, Paint, and Drug Reporter's relative record of prices for chemicals and related materials is currently as follows:—

Mar. 25, 1949	Mar. 18, 1949	Mar. 26, 1948
135.9	137.3	145.4

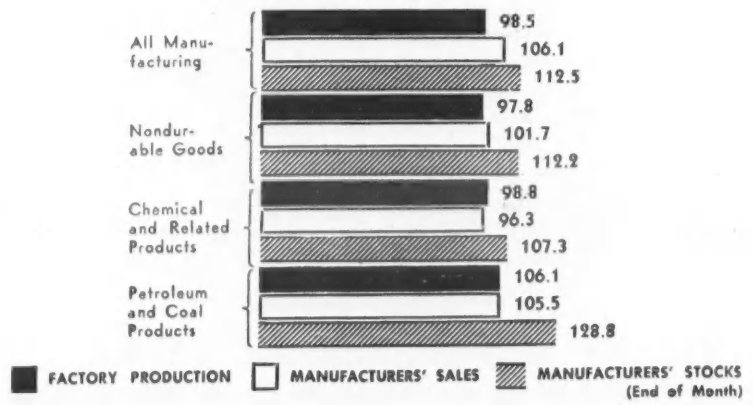
The base of the OPD Price Index is the average of prices in 1926 and 1936, those years representing extremes of price undulations in the interwar period.

OPD Index Monthly Averages

	1949	1948	1947	1946	1941
January	142.0	150.4	150.9	135.3	107.8
February	140.4	147.2	151.9	135.4	110.3
March	137.6	146.2	154.9	135.2	111.9

Business in January, 1949

100=Same Month in 1948



Potash Salts Deliveries in North America Increased 7.6% in 1948

Deliveries of potash in North America continued their upward trend during 1948 when the five leading producers and three importers delivered 2,202,036 tons of potash salts, containing an equivalent of 1,173,842 tons of K_2O, it was announced by the American Potash Institute on March 23.

This was an increase of 82,818 tons K_2O, or 7.6 percent, over 1947. European potash salts of French and German origin totaling 69,455 tons of salts, with an equivalent of 40,069 tons K_2O, delivered in the United States and Canada are included in these figures. Importations of potash of Russian origin are not included.

Deliveries for agricultural purposes in the continental United States were 977,381 tons K_2O, an increase of 79,231 tons over 1947. Canada received 62,198 tons K_2O; Cuba, 3,982 tons; Puerto Rico, 19,471 tons, and Hawaii, 9,153 tons. Exports to other countries amounted to 13,631 tons K_2O.

The 60 percent muriate of potash continued to be by far the most popular material, comprising 79 percent of the total K_2O delivered for agricultural purposes. The 50 percent muriate of potash made up 7 percent of the total, manure salts 6 percent, and sulphate of potash and sulphate of potash-magnesium 8 percent. This was about the same pattern of distribution as in 1947.

Deliveries for chemical purposes in 1948 were 132,787 tons of muriate of potash, containing an equivalent of 83,353 tons K_2O, and 9,301 tons of sulphate of potash, containing 4,673 tons K_2O. The total chemical deliveries of 88,026 tons K_2O were 5,391 tons, or 6 percent, more than in 1947.

In the fourth quarter of 1948 deliveries totaled 620,308 tons of salts, containing an equivalent of 330,909 tons K_2O, an increase of 3 percent compared to K_2O deliveries in the same quarter of 1947. The continental United States received, for agricultural purposes, 265,509 tons K_2O; Canada, 24,204 tons; Cuba, 1,324 tons; Puerto Rico, 2,500 tons; and Hawaii, 1,627 tons. Exports to other countries were 3,763 tons K_2O. The Canadian figure for the quarter is abnormally high since it includes deliveries of French potash during the entire year.

Chemical deliveries during the fourth quarter amounted to 35,689 tons of salts, containing an equivalent of 21,981 tons K_2O, compared with 21,692 tons K_2O in the same period in 1947. Of the 1948 total, muriate of potash equivalent to 20,471 tons K_2O and sulphate of potash equivalent to 1,378 tons K_2O were delivered in the United States and 133 tons K_2O as muriate in Canada.

USDA Warns Against Use of DDT on Cows

The Department of Agriculture recommended on March 24 that DDT be no longer used for insect control on dairy cows and that methoxychlor be substituted. The department said, however, that it was making no change in its recommendation for the use of DDT in controlling insect pests on other livestock, including beef cattle.

Entomologists of the department, chemists and veterinarians cooperating in the investigations on the toxicology of DDT and other insecticides said that the application of DDT directly to milk cows results in the presence of small quantities of the insecticide in the milk. They also said that DDT in small quantities can be detected sometimes in milk following ordinary use of the insecticide for fly control in dairy barns.

The department cautioned that even small amounts of DDT in food such as milk might prove harmful in time, and said that the Food and Drug Administration warns that the presence of the chemical in milk would be contrary to the food, drug and cosmetic act.

Drug Act Rules Compiled

A new issue of the Federal food, drug and cosmetic act, containing all the general regulations and revisions since the previous issue of July, 1946, has just been made available by the Food and Drug Administration. This is the third revision of the publication since its first issuance in August, 1939.

Tin Smelter Leasing To Industry Proposed

Legislation providing for the leasing to private industry of the government-owned tin smelter and all facilities used in connection therewith at Texas City, Tex., was introduced in the house last week by Representative Clark W. Thompson of Texas. A similar bill (S. 1342) by Senator Tom Connally of Texas was introduced in the senate.

The Thompson bill (H. R. 3524) notes the strategic importance of tin and that the United States is dependent upon outside sources for tin ore. It declares a national policy that there shall be maintained at all times in the interests of the national security and common defense, in addition to stockpiles which are acquired and retained pursuant to the strategic and critical materials stockpiling act, a technologically advanced and rapidly expandible tin smelting industry sufficiently large to assure the civilian and military needs of the country being met.

"It is further declared to be the policy of congress," the bill states, "that the security interests of the United States can and will best be served by the development within the United States of a tin smelting industry to be operated by private management and served by private rearch and development. In order to accomplish security through a sound tin-smelting industry it is essential that at the earliest practical date consistent with national security disposal be made to private industry by sale or lease of the government-owned tin smelting facilities and that government smelting of tin be ended and terminated."

MAR 28 1949 XUM

Flaxseed Crop to Be Supported At 90% of April 1 Parity Price

The Department of Agriculture announced on March 21 that 1949-crop flaxseed will be supported by the Commodity Credit Corporation at 90 percent of the farm parity prices as of April 1, 1949.

A support price will be set on a Minneapolis basis to reflect 90 percent of the farm parity price. The support price at Duluth, Chicago, and Portland, Ore., will be the same as at Minneapolis. The support at Los Angeles and San Francisco will be 15 cents over the Minneapolis support; at Fredonia, Kans., it will be 25 cents below Minneapolis, and at Corpus Christi and Houston, Tex., it will be 30 cents below Minneapolis.

In determining county support prices, the actual cost of freight and handling charges will be deducted from the applicable terminal price. For the 1948 crop the support price was $6 per bushel, Minneapolis basis, for No. 1 flaxseed.

Prices will be supported by means of (1) producer loans, (2) producer purchase agreements, and (3) purchases only, at applicable support prices, from producers in thirty-two designated Texas counties. The Texas counties are Aransas, Atascosa, Bee, Boxer, Blanco, Caldwell, Calhoun, Cameron, Comal, DeWitt, Goliad, Gonzales, Guadalupe, Hays, Jackson, Jim Wells, Karnes, Kleberg, Lavaca, Lee, Live Oak, Matagorda, Modina, Nueces, Refugio, San Patricio, Travis, Victoria, Wharton, Willacy, Wilson and Zavala.

Loans and purchase agreements will be available to producers, from time of harvest through October 31, 1949, in Arizona, California, and the Texas counties which are not designated as purchase counties; and through January 31, 1950, in all other states. Purchases will be made in the designated Texas counties from harvest through July 31, 1949.

Loans will mature on demand but not later than January 31, 1950, for Arizona, California, and Texas flaxseed, and not later than April 30, 1950, for all other states. Delivery dates of purchase agreement flaxseed will be after the maturity dates for loans.

The support price for No. 2 flaxseed will be 5 cents per bushel less than the support price for No. 1. No support price will be available for flaxseed which does not grade U. S. No. 1 or 2.

Obituaries

Walter B. Brown

Walter B. Brown, president of Victor Chemical Works, Chicago, died March 21 in St. Lukes hospital, Chicago. He was seventy-four years old.

Mr. Brown joined the Victor Chemical Works in 1903 as chief chemist and superintendent at Chicago Heights, Ill. He held

Walter B. Brown

this position until 1910, when he became assistant general manager. In 1916 he was appointed vice-president, and in 1919 was elected a director and executive vice-president. He had been president and chief executive officer since January, 1947.

Howell Foster

Howell Foster, retired vice-president and director of Schieffelin & Co., New York, died March 17 at his home in Cross River, N. Y. He was eighty-four years old. Mr. Foster joined the Schieffelin organization in 1882 as an order copyist and

—Continued on page 57

Gen. Aniline Introduces New Acetylene Derivatives

The availability of two entirely new acetylene derivatives, dimethylchloroacetal and malonaldehydetetra-alkyldiacetal, was announced at last week's dedication ceremonies of General Aniline & Film Corporation's new acetylene plant at Grasselli, N. J.

Company spokesmen said that the new products, which have resulted from independent research effort in its laboratories, are available in tankcar quantities, in the case of dimethylchloroacetal, and in sample amounts, in the case of malonaldehydetetra-alkyldiacetal.

The output of the plant, which is designed to explore and expand the field of high-pressure catalytic acetylene reactions, includes methyl, ethyl, butyl and isobutyl vinyl ethers in tankcar quantities. The polymers of the methyl and isobutyl ethers are available in drum lots and other alkyl vinyl ethers can be furnished in sample to drum lots upon request.

In addition, the plant is prepared to make drum shipments of butynediol, and has butanediol and polyvinyl pyrrolidone available in laboratory amounts. The company's Antara Products Division will handle commercial sales of all the new acetylene derivatives.

Speaking at the formal opening of the plant, Dr. C. S. Marvel, of the University of Illinois, paid tribute to the pioneering spirit of the company and pointed out that the inception of the new plant demonstrates the independence of the American-managed General Aniline & Film Corporation and its lack of reliance upon foreign sources.

Rendering Industry Trade Rules Conference Ended

The Federal Trade Commission on March 24 announced termination without prejudice of the trade practice conference proceedings for the rendering industry and its decision not to promulgate rules for the industry.

Floz-On Glycol Adviser Calls Process Useless

The technical adviser of the Floz-On Manufacturing Company, Pittsburgh, in relation to its projected production of glycols by the catalytic pyrolysis of natural gas and similar hydrocarbons and direct catalytic synthesis of glycols in the presence of steam, has issued a statement that he was in error in his conclusion that glycol products were present in the reaction mixture. He says that he has accepted the different findings of engineers who made tests for a prospective investor and who reported that the glycol products were being introduced from an outside source.

The consultant says that the purpose of his statement is "to make it abundantly clear that the Floz-On company was acting throughout in perfect good faith and was justified in its reliance upon the technical opinion . . . that his tests had established beyond reasonable doubt the validity of the claims made for the process . . ." He adds that subsequent tests appear to have decisively disproved his original opinion.

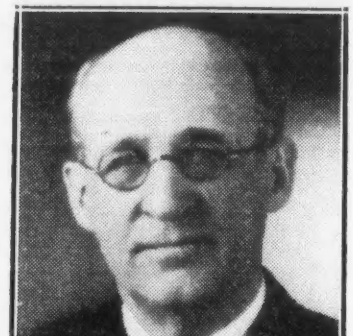
The consultant admits his inability to explain how he apparently had been deceived. He notes the suggestion that a reservoir of glycols might have been concealed in the apparatus, but he admits that no such device was discovered. He points out, however, that, in a second series of tests under constant scrutiny, no glycols were produced in a run of thirty-five hours.

Critical Materials Corp. Organization Recommended

A bill to set up a Strategic & Critical Materials Corporation, to facilitate the acquisition of such materials for the national stockpile, was introduced in the senate last week by Senator Millard Tydings of Maryland, chairman of the senate armed services committee. The bill (S. 1268) was referred to his committee for action.

The corporation would be capitalized through the issuance of bonds to be purchased by the Treasury which would be limited in principle amount to 75 percent of the cost of the stockpiled materials held by it.

Retiring from Phillips



Frank Phillips, chairman of the board of Phillips Petroleum Company, which he founded in 1917, plans to retire from active management of the company. He has asked that his name not be included on the list of nominees for directors to be submitted at the annual meeting on April 26. The board plans to discontinue the office of chairman and create for Mr. Phillips the title of honorary chairman, without voting or management responsibilities.

Westvaco to Expand Phosphorus Output

The Westvaco Chemical Division of the Food Machinery & Chemical Corporation has contracted for further expansion of facilities to produce elemental phosphorus and a variety of phosphates through the addition of a second electric prosphorus furnace at its Pocatello, Idaho, plant.

Provision for such additional installations was made in the design of the original plant, and power and material contracts covering the requirements of the second unit had also been arranged.

Facilities for converting phosphorus from the second unit into soluble phosphates are being provided through expansion of the division's Cartaret, N. J., phosphate plant, and through the erection of a new phosphate plant on the Pacific Coast.

Schedules call for completion of the furnace on January 1, 1950, with associated phosphate facilities being ready by that time to process the new phosphorus supply.

Staley to Construct New Soybean Extraction Plant

The A. E. Staley Manufacturing Company, Decatur, Ill., has revealed plans for the replacement of its soybean oil expeller plant with a new and modern solvent extraction plant. The new extraction plant, to be erected on a site adjacent to the company's present extraction plant, will not increase the total soybean processing capacity.

Who Has It?

Inquiries in the OPD editorial office seek sources from which the materials listed below can be obtained. Information will be gratefully received here:—

2,7-Diamidoacridin.
6,7-Dihydroxybenzofuranone.
Methyl parastearylaminophenyltrimethyl ammonium.
Phorin.
Phenylurethane sulphochloride.
Sulphydryl pentathionate.
3-Sulphododecyl sodium benzoate.
Vinyl phosphate.

Foreign Sales Leads

Anyone interested in supplying the following inquiries with goods or information can get the full address of the inquirer by communicating — not by telephone, please—with OPD office:—

Asbestos, crude, Hamburg, Germany (DL-4).
Chemicals, Recife, Brazil (DL-1, agency); Fortaleza, Brazil (DL-2, agency).
Milk powder, Recife, Brazil (DL-1, agency).
Pharmaceutical products, Recife, Brazil (DL-1, agency); Fortaleza, Brazil (DL-2, agency).
Pumps, electric, Buenos Aires, Argentina (DL-3).

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Monsanto to Reopen Texas City Facility

The Monsanto Chemical Company, St. Louis, Mo., will dedicate its reconstructed plant at Texas City, Tex., on April 8. The dedication ceremony will take place in the morning, and there will be a symposium on the conservation of the petroleum and chemical resources of Texas in the afternoon. Dr. Karl T. Compton, director of the research and development board of the Department of Defense and chairman of the board of Massachusetts Institute of Technology, will be the principal speaker at the dinner in the evening.

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Synthetic Liquid Fuels Plants Dedication Set

Secretary of the Interior J. A. Krug announced on March 22 that the Bureau of Mines will dedicate two new coal to oil demonstration plants on May 8 at Louisiana, Mo., less than 100 miles above St. Louis on the Mississippi River.

First of their kind in this country, these new plants will employ different processes to convert coal and lignite into the high-quality synthetic liquid fuels that ultimately will free us from dependence on foreign sources of oil, Secretary Krug said. They are being erected at a combined cost of $15,000,000 to serve as a proving ground for American coals, equipment, and processing methods.

A public "open house" inspection of the plants is scheduled for Friday, May 6, to open a three-day series of events. On Saturday, May 7, industry and government people interested in synthetic fuels development will attend a late afternoon briefing conference at the Statler hotel in St. Louis and an informal dinner there that evening.

The actual dedication ceremonies will take place at the plants site on the afternoon of Sunday, May 8. Prominent speakers will appear on both the dinner and dedication programs. Details of these programs will be announced later, Secretary Krug said.

Incorporating numerous innovations, the new synthetic fuel plants will demonstrate the respective merits of two basic processes for converting American coals to oil: (1) The direct hydrogenation or Bergius-I G. Farben process, and (2) the gas synthesis or indirect Fischer-Tropsch process. These processes are complementary rather than competitive, and the liquid products that each is best adapted to produce range all the way from heavy fuel oils for ships and industry to jet fuels and aviation gasoline.

Monsanto Elects Curtis, Hochwalt to Directorate

Two new members were elected to the Board of Directors of Monsanto Chemical Company and nine members were re-elected at the company's annual stockholders' meeting March 22. The new board members are Frank C. Curtis, vice-president in charge of coordinating sales, and Dr. Carroll A. Hochwalt, vice-president and co-ordinator of the company's research, development and patent activities. Present company officers were re-elected.

Mr. Curtis succeeds Gaston DuBois, a director of the company since 1906. Dr. Hochwalt succeeds Charles Belknap, who has served as a director since 1929. Both Mr. DuBois and Mr. Belknap reached retirement age for board members this past year.

In commenting on the company's 1948 sales, W. M. Rand, president, stated that 55 percent came from products manufactured before January 1, 1939, and 45 percent from products developed in the past ten years. Of the 12.7 percent increase in 1948 sales over 1947, 6.3 percent resulted from price advances and 6.4 percent from increased sales volume.

—*Continued on page 59*

Int. Minerals Opens New Potassium Chloride Plant

International Minerals & Chemical Corporation, Chicago, has commenced production of chemical grade potassium chloride at its new refinery at Carlsbad, N. M. The new plant is expected to reach a capacity of approximately 20,000 tons annually of potassium chloride when full production is achieved, and is also using a revised process for the production of improved potassium sulphate.

Foreign Market Lists

Lists of foreign outlets for chemicals and related materials and consumers goods recently compiled by the Commercial Intelligence division of the United States Department of Commerce, include the following, which are available from the division at $1 for a list for any one country:—

Brush and broom manufacturers—Ecuador, Egypt, Netherlands, Turkey, Union of South Africa.

Laundry and dry cleaning industry—Barbados, Trinidad.

Naval stores importers, dealers, producers, etc.—Italy.

Oil (animal, fish, vegetable) importers, dealers, etc.—France.

Paraffin wax importers, dealers—Venezuela.

Soap manufacturers—Venezuela.

Tanneries—France.

P.A.'s-Eye View of Business

Composite view, March 27, of purchasing agents composing the Business Survey Committee of the National Association of Purchasing Agents

The March reports of purchasing executives confirm the indications that were sprouting at the end of February. The yearend decline in industrial activity has definitely lost momentum, for production is now generally at levels that are being maintained and, in some instances, improved. Sixteen percent of the reports for March show increased production, while 48 percent hold a steady program of operations, many on curtailed schedules established after four months' decline. Confirming that trend, 16 percent report some increase in order backlogs, while 46 percent have maintained the February position and, by that gauge, show no further shrinkage of demand.

Support of that indicated trend—for industrial business to level off and improve—is found in a comparison of opinion of members who reported production and back-order in declines in November and December, with their March position. That double check shows 59 percent are now maintaining or increasing production; 54 percent have improved order-book positions. Unless that situation reflects only a seasonal adjustment, it could be assumed that industries which recorded declines in January, February, and March, may show a corresponding improvement in April, May, and June, as production schedules, inventories, and commitments are worked into balance at new levels.

With the trend to a lower volume of business this year, purchasing agents find the timing of price adjustments are a major consideration. "Will prices be reduced to maintain production and employment, or will prices be held up and the reduction be made in production and employment?" The predominant opinion is that prices will be reduced by efficient management, to maintain volume. There is a strong counteropinion that many will attempt to hold prices for some time before reducing. Competition in most industries will determine the answer.

Commodity Prices

Price declines have been more general this month and have occurred in many more lines, but are usually of limited importance. Many sellers continue to test markets, endeavoring to find order-attracting price levels. The sharpest decline in a basic commodity occurred in lead, which was critically short in December, but plentiful in February. Buyers point to weakness in scrap of other metals as an indication that supply is catching up with and passing demand.

Broader quantity discounts are appearing. Normal cash discounts are coming back. Better quality and service are being offered. One-way escalator clauses are out. Price-decline protection on contracts is becoming more general. Except in the case of distress merchandise, no general sharp price reductions are looked for—rather a continuing downward drift.

Inventories

Purchasing agents report no new developments in inventory position. General policy continues to be:—Reduce and hold to minimum operating requirements. Higher turnover rate targets are being set, with an easing of supply requiring shorter procurement lead time. A few exceptions are reported where sharp cutbacks in production have caused a temporary buildup of supplies. Overall, industrial purchased inventories continue to hold a conservative position.

Buying Policy

In line with the effort to reduce inventories, buying continues on short range and will remain on that basis until prices show a tendency to stabilize or supplies tighten. Requisitions are being carefully screened, for lead time has become a major controlling factor. Some buyers are risking shortages in order to hold a minimum inventory position. Definite forward requirements are being reduced to immediate needs, and orders placed for short-term delivery. Suppliers offering price decline protection encourage forward commitments.

Specific Commodity Changes

Lead took the lead in important commodity price reductions this month. Scrap (copper, iron, steel, and paper) went off to new postwar lows.

Others reported down were fatty acids,

—*Continued on page 62*

Washington Talks It Over

By Ralph L. Cherry

Representative Ralph Harvey of Indiana is quite concerned—as everyone else needs be—over the way the activities of Federal, State, and local governments are mushrooming without any semblance of coordination or correlation of the functions each should perform. Something should be done, and done now, says the freshman congressman, before the situation gets completely out of hand, to divide up the responsibilities among the various levels of government in which they rightfully belong.

The problem is particularly acute in the field of taxation and financing. In the urgency to find more sources of revenue to tap to meet the mounting costs of government, overlapping and duplication have resulted to such an extent that the costs of continuance of such a hodge-podge of revenue collecting is of no small consequence. If it is necessary for one source of revenue to be tapped by more than one taxing agency, at least there should be some coordination in the collections to save the taxpayers the expense of duplicate collectors, tabulators, and the like.

Mr. Harvey's approach to the problem would be to set up a national commission on intergovernmental relations to make a broad study of the subject and suggest possible remedies. In effect he is suggesting a third program or reorganization. We have already had a "reorganization" of congressional legislative machinery. The Hoover commission is now reporting suggestions for reorganization of Federal government functioning. Mr. Harvey is proposing reorganization of intergovernmental relation—a worthy project.

Coal Sampling Is Big Job

Whether anyone else has recognized it yet or not, the Bureau of Mines is very conscious of the fact that a buyer's market has developed in at least one important item purchased by the government—coal. The bureau can't keep up with requests for sampling of the coal of operators who wish to bid on government contracts.

The Federal government buys between 5,000,000 tons and 6,000,000 tons of coal annually, worth about $60,000,000, and Bureau of Mines data on the quality of coal are used in the consideration of bids. The bureau has limited personnel and equipment to handle the samples from mines all over the country and it has been literally swamped with requests for sampling.

According to Mines Bureau Director Boyd, the bureau had on its books requests for sampling 309 mines October 1. By March 1, the number of unfilled requests had reached 653. In December and January alone, requests were received for sampling a total of 265 mines. Dr. Boyd is hopeful that arrangements can be made in time to satisfy this new and mounting demand for analyses, but in the meantime he can only assure the operators that the bureau will be fair and carry out their requests as rapidly as possible.

Knowhow in Big Demand

Marshall plan countries are evincing a keen interest in the willingness of this country to impart its production knowhow to raise the level of European production and improve working conditions. The Technical Assistance Division of ECA reports that more than 200 requests have been made for information on United States methods and technics in fields ranging from steel processing and shipbuilding to ceramics and the production of peanuts.

Technical assistance is furnished by sending expert consultants from the United States to Europe; by bringing European observers to this country; by an exchange of experts between participating countries; and by the distribution of technical literature, special studies and surveys. A substantial part of the cost of these joint undertakings is paid by the participating countries in their own currencies.

Already on inspection tours in this country are four teams from Denmark studying U. S. processes of steel, machinery, ship-building, and meat processing; a team of fifteen from the U. K. steel foundry industry; and labor delegations from Italy and Sweden studying manpower utilization and employment. A delegation of thirty-three farmers from the Netherlands will arrive next week. Also coming from the Netherlands are three engineers to study marine, ceramic, and

—*Continued on page 36*

Paint Industry Warns Of Trend to Trucking

The nation's railroads were warned last week that efforts on their part to bring about increased rates on the movement of paints and paint materials is promoting the diversion of such traffic to forms of transportation other than rail, including private transportation.

"It has been amply demonstrated," a spokesman said, "that paint products are very desirable tonnage for motor carrier transportation. Their density and packaging make these products especially desirable forbed-load, and enables the motor carrier to load vehicles to maximum capacity by combining light weight products; and the cost of securing paint products in freight cars has advanced substantially in recent years—factors important to the continued handling of paint products in volume."

The warning was voiced in a statement by Edward A. Leveille, chairman of the traffic committee of the National Paint, Varnish and Lacquer Association, before hearings on proposed uniform classification ratings by the railroads' Committee on Uniform Classification in Chicago.

Mr. Leveille quoted from the Interstate Commerce Commission's docket number 28310, which states that "the individual and joint classifications shall be just, fair and reasonable, for application uniformly throughout the country," and charged that the classification proposed by the carriers for paints "does not promote uniformity—but rather destroys uniformity."

He pointed out that the preponderance of tonnage in the paint industry is produced in official territory and that the increase in the classification rating amounts to 27.3 percent. Together with

—*Continued on page 75*

Pennsalt Develops New Neutral Calcium Arsenate

Development of a new zero-lime calcium arsenate that may be successfully combined with organic insecticides for the control of cotton infesting insects has been announced by the Pennsylvania Salt Manufacturing Company, Philadelphia.

To be marketed under the trade name "Pencal," this special neutral-type calcium arsenate was developed at Pennsalt's plant in Bryan, Tex. It will be available for the current cotton dusting season, and it will cost the same as the regular calcium arsenate, company officials said.

This new product was designed for combination with such organic aphicides and miticides as benzene hexachloride, DDT and parathion without the chemical break down of the organic ingredients as occurs where regular calcium arsenate is used, they added. "Pencal" alone is recommended by the company for control of boll weevil, leafworm and boll worm, and combined with benzene hexachloride, is said to eliminate aphids and fleahoppers. By adding parathion or sulphur to this mixture, spiders, too, may be controlled, it was stated.

Dow Appoints Loose Magnesium Sales Head

William S. Loose, former director of the laboratory development section of the magnesium laboratory, has been appointed magnesium division sales manager, it was announced March 24 by Leland I. Doan, director of sales for The Dow Chemical Company, Midland, Mich.

Mr. Loose began work with The Dow Chemical Company in 1927 and, with the exception of a few years, absence to complete his college training, has been continuously associated with magnesium operations since his employment there.

Du Pont Unit to Produce Tetrafluoroethylene Resin

E. I. du Pont de Nemours & Co., Wilmington, Del., is planning the construction of a new unit at its Washington Works, Parkersburg, W. Va., for the first full scale manufacture of its "Teflon" tetrafluoroethylene resin. Construction is to be started in the late Spring or early Summer, and it is expected that the work will take about twelve months.

Phillips Assigns Hull

The Phillips Chemical Company has appointed Raymond J. Hull manager of export technical service in its Philblack sales division. In this capacity Mr. Hull will have headquarters in the New York office, but will devote the major portion of his time to supplying direct technical service throughout the world.

Would you be in this line-up?

If executives who have suffered losses because of package and contents damaged in transit could recoup them at a window like this, the line would extend around and around the block.

But it would be hard to find a single man in line who packed his product in metal containers.

Cans protect.

AMERICAN CAN COMPANY

New York • Chicago • San Francisco

This trademark CANCO *is your assurance of quality containers. Look for it!*

Other advantages of the can

1. **Cans are break-proof.**
2. **Cans protect contents against light, air, insects, and moisture.**
3. **Cans are *light*—mean lower shipping costs. *Compact*—mean more storage and display space.**
4. **Cans mean eye-appeal for impulse buying.**
5. **Cans are tamper-proof.**
6. **Cans are easy to open and dispose of.**

Association Meetings

Affiliated Drug Stores, New Yorker hotel, New York, September 11-15.
American Association of Cereal Chemists, Statler hotel, New York, May 16-20.
American Association of Textile Chemists and Colorists, Chalfonte-Haddon Hall, Atlantic City, N. J., October 13-15.
American Chemical Society, Fairmont hotel, San Francisco, March 28-April 1.
American Drug Manufacturers Association, Boca Raton Club, Boca Raton, Fla., April 4-7.
American Electroplaters Society, Schroeder hotel, Milwaukee, Wis., June 27-30
American Institute of Chemical Engineers, William Penn hotel, Pittsburgh, Pa., December 4-7.
American Oil Chemists Society, Roosevelt hotel, New Orleans, La., May 10-12.
American Pharmaceutical Association, Jacksonville, Fla., April 24-30.
American Pharmaceutical Manufacturers Association, Homestead hotel, Hot Springs, Va., June 9-11.
American Plant Food Council, Mount Washington hotel, Bretton Woods, N. H., June 19-22.
American Society for Testing Materials, Chalfonte-Haddon Hall, Atlantic City, N. J., June 19-22.
American Spice Trade Association, Edgewater Beach hotel, Chicago, May 9-11.
American Zinc Institute, Statler hotel, St. Louis, Mo., April 11-12.
American Water Works Association, Stevens hotel, Chicago, May 30-June 1.
Associated Chain Drug Stores, New Yorker hotel, New York, September 25-29.
Association of Consulting Chemists and Chemical Engineers, Sheraton hotel, New York, April 26.
Chamber of Commerce of the United States, Washington, May 2-5.
Chemical Institute of Canada, Halifax, Nova Scotia, May 30-June 1.
Chemical Market Research Association, Statler hotel, St. Louis, Mo., April 4-5.
Drug, Chemical and Allied Trades Section, New York Board of Trade annual meeting, Shawnee Inn, Shawnee-on-Delaware, Pa., September 22-25.
Federation of Paint and Varnish Production Clubs, Chalfonte-Haddon Hall, Atlantic City, N. J., November 3-5.
Flavoring Extract Manufacturers Association, Drake hotel, Chicago, May 16-18.
Forest Products Research Society, Grand Rapids, Mich., May 2-4.
Independent Petroleum Association of America, Roosevelt hotel, New Orleans, May 3-4.
International Congress of Military Medicine and Pharmacy, Mexico City, Mexico, October 23-29.
Liquefied Petroleum Gas Association, Palmer House, Chicago, May 9-11.
Magnesium Association, Edgewater Beach hotel, Chicago, April 19-20.
Manufacturing Chemists Association, Skytop Inn, Skytop, Pa., June 2-3.
Metal Powder Association, Drake hotel, Chicago, April 5-6.
National Association of Insecticide and Disinfectant Manufacturers, Drake hotel, Chicago, June 13-14.
National Association of Purchasing Agents, Stevens hotel, Chicago, June 20-22.
National Farm Chemurgic Council, Peabody hotel, Memphis, Tenn., March 30-April 1.
National Foreign Trade Council, Waldorf-Astoria hotel, New York, October 31-November 2.
National Fertilizer Association, White Sulphur Springs, W. Va., June 13-15.
National Fruit and Syrup Manufacturers Association, Drake hotel, Chicago, May 19.
National Paint, Varnish and Lacquer Association, Chalfonte-Haddon Hall, Atlantic City, N. J., October 31-November 1.
National Pest Control Association, Biltmore hotel, Los Angeles, Calif., October 17-19.
National Petroleum Association, Cleveland hotel, Cleveland, Ohio, April 13-15.
National Sanitary Supply Association, Sherman hotel, Chicago, May 8-11.
National Wholesale Druggists Association, Ambassador and Ritz-Carlton hotels, Atlantic City, N. J., October 8-13.
Natural Gasoline Association, Texas hotel, Fort Worth, Tex., April 20-22.
Navy Industrial Association, Waldorf-Astoria hotel, New York, September 28.
Pacific Chemical Exposition, San Francisco Civic Auditorium, November 1-5.
Packaging Machinery Manufacturers Institute, Edgewater Beach hotel, Chicago, October 31-November 2.
Proprietary Association, Greenbrier hotel, White Sulphur Springs, W. Va., June 1-3.
Society of Cosmetic Chemists, Spring meeting, Biltmore hotel, New York, May 20.
Synthetic Organic Chemical Manufacturers Association, Commodore hotel, New York, April 13, annual outing, Shawnee Inn, Shawnee-on-Delaware, Pa., June 7-9; annual meeting, Commodore hotel, New York, December 7.
Toilet Goods Association, Waldorf-Astoria hotel, New York, May 17-19.
Western Conference on Packaging, Packing and Shipping and Western Packaging Exposition, San Francisco Civic Auditorium, August 9-12.

G.E. Awards Fellowships

The General Electric Company, Schenectady, N. Y., has awarded research fellowships to fifteen graduate students for advanced study. Seven of the students received Charles A. Coffin Fellowships for advanced study in electricity, physics and the physical sciences, and the remaining eight were awarded Gerard Swope Fellowships for study in industrial management, engineering, the physical sciences and various scientific and industrial fields.

Tidelands Investigation By Congress Proposed

The senate committee on armed services plans to give consideration soon to legislation of its chairman, Senator Millard Tydings of Maryland, for a Congressional investigation to determine what legislation may be appropriate to define and delimit the territorial waters of the United States.

The committee has tentatively planned to hold hearings on the investigation resolution (S. Res. 88) during the week of April 18. It is during this same week that the Supreme Court of the United States plans to hear arguments on the government's motion that it be permitted to bring suit against the states of Texas and Louisiana for title to the tidelands off these states in the Gulf.

Considerable importance has been attached to the investigating resolution by the oil industry and the coastal states, because the outcome of the decision of the committee for a Congressional inquiry may largely determine whether the many tidelands bills that have been introduced this session shall be pressed over the objections of the White House.

The resolution was introduced by Mr. Tydings at the behest of the Maryland legislature, which is concerned over the status of its tidelands along the Atlantic Coast. It calls for a legislative approach to the tidelands problem that would be consistent with the sovereignty of the states and the international rights and obligations of the United States; give due regard to the requirements of the national defense, of commerce, and of the conservation, development, and utilization of the resources of the marginal seas; and observe the constitutional rights of the states in their relationship to the national economy and the national defense.

Diamond Alkali Elects Three New Directors

Diamond Alkali Company, Cleveland, has elected John A. Sargent, John Berdan and Frank R. Denton to its board of directors. Mr. Sargent, who is executive vice-president of the company, has been associated with it since 1946. Mr. Berdan, currently president of Meridian Films, Corporation, spent sixteen years in Diamond Alkali's sales department and was an assistant director of sales when he resigned in 1947. Mr. Denton is vice-chairman of the board of directors of the Mellon National Bank & Trust Company, Pittsburgh.

Proprietary Ass'n Plans Documentary Film Preview

The Proprietary Association of America will hold the premier showing of its motion picture, "For Us the Living," at the National Press Club, Washington, on April 12. The picture, a documentary on the development of the health facilities, relating particularly to drugs, of the nation, was sponsored and financed by the association and produced with the cooperation of the Federal Security Agency, the Food and Drug Administration, the Public Health Service, and the Federal Trade Commission.

Soybean Ass'n Issues New Industry Directory

The 1949 edition of the *Soybean Blue Book* has been issued by the American Soybean Association, Hudson, Ia. The book, published as an annual directory of the soybean industry, has been enlarged to include statistical information on past production and prices of soybeans, soybean oil and oil meal. Also included are statistics on utilization of soybeans and soy products as far back as soybeans have been of importance in the United States.

Plantfood Producers Plan June Meeting

The Plantfood Producers, Ontario, will hold its annual convention at the Manor Richelieu, Murray Bay, Quebec, on June 28 to 30. Members of the fertilizer industry interested in attending the sessions should contact A. Mooney, secretary, Plantfood Producers, Toronto, Ontario.

SAACI to Hold 'Fitenite'

The Salesmen's Association of the American Chemical Industry will hold a "Fitenite" at the Downtown Athletic Club, New York, on April 7. Dinner will be served at 6:30 p.m., and the eight five-round bouts are scheduled to start at 8 o'clock.

Science Foundation Bill Passed by Senate

Senate bill 247 providing for establishment of a National Science Foundation along the lines that has been recommended by President Truman was passed by the senate on March 18 and sent to the house for concurrent approval.

As provided for, the Foundation would be composed of 24 members and a director, all appointed by the President. In the past the bill has been blocked from final passage because of congressional refusal to give the President the right to appoint the director. The senate has now yielded to the White House in this matter.

Rubber Study Group Advisers for U.S. Named

The Department of State has announced the appointment of Donald D. Kennedy, chief of its division of international resources, as delegate to the sixth meeting of the Rubber Study Group, to be held in London from March 28 to April 2.

Named as industry advisers to the delegates were: Paul W. Litchfield, Goodyear Tire & Rubber Company; Harvey S. Firestone, jr., Firestone Tire & Rubber Company; John L. Collyer, B. F. Goodrich Company; William F. O'Neil, General Tire & Rubber Company; Roslyn D. Young, Rubber Trade Association of New York; A. L. Viles, Rubber Manufacturers Association; George W. Tisdale, United States Rubber Company; Gilbert K. Trimble, Midwest Rubber Reclaiming Company, and Thomas Robins, jr., Hewitt-Robins, Inc.

Government advisers named were: Frederick D. Bates, jr., materials division, Munitions Board; Gerald B. Hadlock, office of rubber reserve, Reconstruction Finance Corporation; Everett G. Holt, Office of Domestic Commerce; S. Earl Overly, Office of International Trade, and Frederic P. Bartlett, United States Embassy, London. Secretary of the group is George H. Alexander, Department of State.

Petroleum Industry Census For 1949 Recommended

A subcommittee of the National Petroleum Council unanimously recommended on March 24 that a census of the petroleum industry be taken by the Bureau of Census next year to cover 1949. The committee also recommended that a small group of experts from the industry be appointed to assist the bureau in drawing up schedules on which the census will be taken.

Congress last year authorized a census of manufacturers, business, transportation and mineral industries every five years, beginning in 1949, but no funds were appropriated for the census of minerals or transportation.

If the mineral industry census is not taken this year, the petroleum subcommittee said, there will be a lapse of fourteen years in the basic statistics, inasmuch as the last census was in 1939 and the next is scheduled to cover 1953. The committee said that even a ten year gap in the basic statistics is too long.

ADMA Names Chairmen Of Meeting Committees

The American Drug Manufacturers Association has appointed committees to serve at its thirty-seventh annual meeting, to be held at the Boca Raton Club, Boca Raton, Fla., on April 4 to 7. Chairmen of the various groups are:

General entertainment, Robert B. Magnus, Magnus, Mabee & Reynard, Inc.; banquet, J. Mason Gaston, Merck & Co.; evening affairs, Charles P. Walker, jr., Citro Chemical Company of America; golf, V. E. Williams, Monsanto Chemical Company; ladies' entertainment, R. P. Neptun, S. B. Penick & Co.; miscellaneous sport activities, F. J. Reid, New York Quinine & Chemical Works; reception, W. D. Barry, Mallinckrodt Chemical Works, and transportation, F. J. Reid.

Packaging Inst. Meets May 11

The Packaging Institute will hold a luncheon meeting at the Ritz-Carlton hotel, Atlantic City, N. J., on May 11. Following the luncheon, the formation of new committees and their respective missions will be announced, and brief meetings of the various groups will be held.

Federal Medical Work Reorganization Urged

A reorganization of Federal medical activities to unite functions now in five major agencies so as to eliminate overlap, waste, and inefficiency, was recommended on March 21 by the Hoover Commission or Organization of the Executive Branch of the Government. The proposed form of organization is a unification in which each of the major agencies would have an advisory voice in management.

It was recommended that a United Medical Administration be established into which would be consolidated most of the large scale activities of the Federal government in fields of medical care, medical research, and public health, including preventive medicine. The administration would have charge of the functions, facilities, and personnel for medical care of the following activities:—

1. The general hospitals of the armed forces in the continental United States (except a medical center for each of the three services), and station hospitals (certain of which the Navy calls "dispensaries") in the continental United States except those at outlying posts so located that other hospitals of the United Medical Administration would not be near enough to provide the care required.

2. The hospital functions of the Veterans Administration in toto, including outpatient services in the field offices of the Veterans Administration.

3. The four nonmilitary hospitals in the Canal Zone.

4. The hospitals of the Public Health Service.

5. Functions, facilities and personnel of the Public Health Service.

St. Elizabeths Hospital, now in the Federal Security Agency, would either be transferred to the District of Columbia or included in the new administration. Further recommendations of the commission were:—

1. The present inconsistency in policy between the Federal hospital construction program and Federal aid to non-Federal hospitals under the Hill-Burton act should be ended.

2. The control of medical policy in the armed services should be exercised by the Secretary of Defense.

3. The United Medical Administration should give constant attention to necessary measures for national defense.

4. Medical and other technical personnel in the administration should be on a career service basis.

5. A survey should be made to determine the needs for emergency aid to medical schools.

6. The highest priority in importance should be given to research, preventive medicine, public health, and education.

NPA Sets Program For April Meeting

The National Petroleum Association has completed the program for its forty-sixth semi-annual meeting, to be held at the Cleveland hotel, Cleveland, on April 13 to 15. The only general session during the meeting will be in the afternoon of April 14, and will feature the following speakers:—

W. S. Zehrung, president of the association will deliver the opening address; William Simon, recent counsel to the senate committee investigating basing point price systems, will discuss "Geographical Pricing"; Richard J. Gonzales, economist of the Humble Oil & Refining Company, will present a study entitled "Petroleum Supply and Demand—Review and Outlook," and Leland B. Stowe, journalist and foreign correspondent, will speak on "The Meaning of the Soviet-American Crisis."

Navy Industrial Ass'n Annual Meeting Sept. 28

The Navy Industrial Association will hold its sixth annual dinner and meeting at the Waldorf-Astoria hotel, New York, on September 28. Detailed plans for the meeting and dinner will be announced later.

Bone Char Producers Confer

Fourteen papers covering a broad range of problems in the industry were presented at the first technical session on bone char research, held recently at the National Bureau of Standards, Washington. The session was conducted by the bureau and industrial sponsors. It attracted sugar refiners and bone char manufacturers from Canada, England, Scotland and this country. Among the subjects covered were:— bone char kilns, test procedures, filtration operations and basic research on the properties of bone char.

MAR 28 1949

SULFAQUINOXALINE MERCK

Now Available in Commercial Quantities

What It Means To You:

A major achievement of Merck Research which can be made, immediately, a component part of your own production program. The introduction of Sulfaquinoxaline Merck enables you to supply poultry raisers with a superior product, effective against coccidiosis and acute fowl cholera.

What It Means To Your Customers:

An exceedingly *active, versatile,* and *economical* sulfonamide which may be used

- *as a* preventive *against cecal and intestinal coccidiosis of chickens*
- *for the* control *of outbreaks of cecal and intestinal coccidiosis of chickens*
- *for the* control *of outbreaks of acute fowl cholera of chickens, turkeys, and pheasants.*

How Its Value Was Proved:

The impressive clinical advantages of Sulfaquinoxaline Merck were established by extensive trials at experiment stations and in the field. Published reports on this investigational work testify to the new agent's efficiency, economy, and recognized dependability.

How It Performs:

In addition to limiting outbreaks of coccidiosis and acute fowl cholera, Sulfaquinoxaline Merck has been found to

- *limit mortality* from coccidiosis (throughout extensive experimental study) to *less than 2 per cent.*
- *reduce stunting* which often follows uncontrolled coccidiosis
- permit birds to *build immunity* to the types of coccidia to which they are exposed
- *reduce losses* due to impaired feed efficiency
- permit farm flocks to maintain greater uniformity; better shank color; and to complete feathering at an earlier age.

HOW SUPPLIED:

Sulfaquinoxaline Veterinary Merck is a buff or yellow to light tan colored, odorless or practically odorless powder which melts at about 245° to 250°C. with decomposition. As supplied, it is substantially 325 mesh. Sulfaquinoxaline is relatively insoluble in water, 0.75 milligram dissolving in 100 cc. at *p*H 5.2. It is soluble in sodium hydroxide solution, forming the sodium salt.

A COMPLETE MERCK SULFAQUINOXALINE SERVICE:

1 ***Prompt assistance* to manufacturers on methods for preparation of solutions and fabrication of soluble tablets.**

2 ***Speedy shipment* of required quantities from ample stocks.**

Your inquiries are cordially invited. Write, wire, or phone today.

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Current Market Quotations

Chemicals and Related Materials

March 25, 1949

Unless otherwise indicated, listings are first-hand quotations on large lots, f.o.b. New York. Changes and trends are noted in the market reports, with other informative comment. The locations of these reports are given in the table of contents on page 4. The figures in the two columns do not represent bid and asked prices nor a range over the week. They are the quotations prevailing on the date above, on the basis of differences in one or more of these factors:—Quantity, quality, locality, individual supplier's views.

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A

Acacia (see Gum, arabic).
Acetaldehyde, 99%, dms., c.l., works, lb. .12 - —
l.c.l., works lb. .12½- .13
tanks, works lb. .10 - —
Acetaldol (see Aldol).
Acetamide, CP, fib, dms lb. .65 - .75
tech., fib. dms lb. .38 - .43
Acetanilide, tech., bbls., c.l., dlvd. or frt. equald lb. .22 - .23½
l.c.l., ton lots lb. .23 - .24½
smaller lots lb. .26 - .27½
USP, bbls., 2,000-lb. lots lb. .50 - —
smaller lots lb. .56 - —
Acetic anhydride, dms., c.l., frt. alld. E lb. .13½- —
l.c.l., frt. alld. E lb. .15 - —
tanks frt. alld. E lb. .12 - —
Acetoacetanilide, bbls., dlvd lb. .67½- —
fib. dms., c.l., works lb. 1.14 - —
l.c.l. lb. .67½- —
Acetoacetorthoanisidide, dms., wks., 500 lbs. or more lb. 1.50 - —
smaller lots, same basis lb 1.75 - —
Acetoacetorthochloranilide, bbls., works lb. 1.15 - —
fib. dms., works, cl. lb. 1.14 - —
l.c.l., same basis lb. 1.15 - —
Acetoacetorthotoluidide, bbls., dlvd lb. .90 - —
fib. dms., c.l., works lb. .71 - —
l.c.l. lb. .72 - —
Acetone, CP, dms., c.l., dlvd lb. .09 - —
l.c.l., dlvd lb. .09½- .10
tanks, dlvd lb. .07½- —
Methyl (see M).
Acetonitrile, dms., c.l., works lb. .40 - —
l.c.l., works lb. .45 - —
Acetophenetidin, USP, bbls., works, frt. equald lb. 1.10 - 1.20
Acetophenone, cns., dms lb. 1.30 - 1.85
tech., l.c.l., dms., works lb .75 - —
Acetoactoparaphenetidide, d m s., 500 lbs. or more, works, lb. 1.65 - —
smaller lots, same basis lb. 1.90 - —
Acetyl chloride, cbys., works lb. .55 - .60
Acetyltributyl citrate, dms lb. .43 - .45
smaller pkgs lb. .48 - .54
Acetyltriethyl citrate, dms lb. .36 - .38
smaller pkgs lb. .41 - .47
Acid, abietic, dms., c.l., works lb. .07½- —
Acetic, com'l or redist., 28%, bbls 100 lbs. 4.50 - 4.75
56%, bbls 100 lbs. 7.90 - 8.15
70%, bbls 100 lbs. 9.60 - 9.85
80%, bbls 100 lbs. 10.85 - 11.10
glacial, synthetic, CP, dms., works 100 lbs. 13.50 - 14.00
USP, dms., works 100 lbs. 11.50 - 12.00
tech., dms., c.l., works 100 lbs. 10.00 - 11.00
tanks, works 100 lbs. 8.60 - 9.12

Acetic acid price ranges above are for 40 bbls. or more and for smaller lots. Carboys and cases are 50c. per 100 lbs. higher.

Acetic annydride (see Acetic anhydride above).
Acetylsalicylic, USP, special, bbls., makers, primary distrib., point of ship't, 100-lb. lots lb. .53 - —
standard, fine, cryst., gran., (30-40 mesh) powd. (80 mesh), bbls., same basis, lb. .48 - —

Freight equald, ship't identical quantity over standard routes, from N. Y., Phila., Midland, Mich., Chicago and St. Louis.

Adipic, fib. dms., works lb. .26½- —
Aminoacetic, NF, bbls., frt. adjusted lb. 1.50 1.75
Anthranilic, resub., bbls lb. 2.10 - —
tech., bbls. lb. 1.05 - 1.10
Arsenous, tech. (see Arsenic, white).
USP, powd., dms., kgs lb. .20 - .22
Ascorbic, USP, dms., 500-kilo lots, kilo. 24.50 - —
25-50 kilo lots kilo. 25.00 - —
10-kilo lots kilo. 25.35 - —
5-kilo lots kilo. 25.70 - —
bots., kilo lots kilo. 26.41 - —
500 grams kilo. 27.47 - —
Battery, cbys., c.l., E. works, 100 lbs. 1.60 - 1.75
l.c.l., E. works 100 lbs. 2.15 - 2.35
Benzoic, tech., bbls., 4,000 lbs. or more lb. .43 - —
1,000 to 3,900 lbs lb. .44 - —
900 lbs. or less lb. .47 - —
USP, bbls., 4,000 lbs. up lb. .54 - —
1,000 to 3,900 lbs. lb. .55 - —
900 lbs. or less lb. .58 - .59
dms., 4,000 lbs. up lb. .55 - .56
1,000 to 3,900 lbs lb. .56 - .57
900 lbs. or less lb. .58 - .59
Betaoxynaphthoic, bbls., works lb. 1.25 1.43
Boric, tech., 99½%, cryst., bgs., c.l., works ton. 115.25 - —
ton lots, ex whse., N. Y. or Chi ton. 160.00 - —
less ton lots, same basis, ton. 165.00 - —
bbls., c.l., works ton. 135.25 - —
ton lots, ex whse., N. Y. or Chi ton. 180.00 - —
less ton lots, same basis, ton. 185.00 - —
bulk, c.l., works ton. 111.75 - —
gran., bgs., c.l., works ton. 90.25 - —
ton lots, ex whse., N. Y. or Chi ton. 135.00 - —
less ton lots, same basis, ton. 140.00 - —
bbls, c.l., works ton. 110.25 - —
ton lots, ex whse., N. Y. or Chi ton. 155.00 - —
less ton lots, same basis, ton 160.00 - —
bulk, c.l., works ton. 86.75 - —
powd., bgs., c.l., works ton. 95.25 - —
ton lots, ex whse., N. Y. or Chi ton. 140.00 - —
Acid, boric, tech., 99½%, powd., less ton lots, same basis, ton. 145.00 - —
bbls., c.l., works ton. 115.25 - —
ton lots, ex whse., N. Y. or Chi ton. 160.00 - —
less ton lots, same basis, ton. 165.00 - —
bulk, c.l., works ton. 91.75 - —
USP $25 per ton higher.
Broener's bbls. lb. 1.34 - 1.45
Butyric, 99%, dms., c.l., works lb. .34½- —
l.c.l., works lb. .35 - —
tankcars, works lb. .33 - —
Cacodylic, bots. lb. 12.00 - 13.00
Camphoric, natural, dms lb. 6.00 6.75
synth., dms lb. 5.25 - 8.00
Capric, tech., dms lb. .50 .50½
Caprylic, 99%, dms lb. .50 .50½
Castor oil, split, dms lb. .35¾ .36¾
Chlorosuiphonic, dms., c.l., works, lb. .03 —
l.c.l., works lb. .03½- .04½
tanks, works lb. .02½- —
Chromic, 99½-99¾%, dms., c.l. works lb. .25½ —
l.c.l., works lb. .26 - .27
USP, 5 lb. bots. lb. .82 - —
Cinnamic, refd., bots lb. 3.00 4.00
Citric, anhyd., gran., fine gran., dms., c.l. lb .27 —
10,000 lbs., 1 ship't lb. .27½- —
kgs. lb. .28½- —
Anhydrous citric acid powder, ½c. per lb. higher.
USP, cryst., bbls., c.l lb. .27½ —
10,000 lbs., 1 ship't lb. .28 - —
smaller lots lb .28½- —
kgs. lb. .29½- —
gran., fine gran., bbls., c.l lb. .24½- —
10,000 lbs., 1 ship't lb. .25 - —
smaller lots lb. .25½- —
kgs. lb. .26½- —
USP citric acid powder ½c. per lb. higher.
Cleve's, mixed, bbls lb. .65 .66
Coconut oil, dist., dms .22½- .23½
double dist., dms .25½- .26½
Corn oil, s.d., dms lb. .09¾- .10¾
Cottonseed oil, dist., dms lb. .09¾- .10¾
Cresylic, dom., coattar, high boil 50% (210°-215°), c.l., works and frt. equald gal. 1.36 - —
l.c.l., same basis gal. 1.39 - —
tanks, same basis gal. 1.30 - —
low boil, 50% (204°-206°), and special blends, c.l., same basis gal. 1.46 - —
l.c.l., same basis gal. 1.49 - —
tanks, same basis gal. 1.40 - —
Petroleum, 13o°C to 200°C, non-ret. dms., c.l., San Francisco and Los Angeles gal. 1.005 —
l.c.l., same basis gal. 1.025 1.045
tanks, same basis gal. 925 —
Acid, cresylic, dom., petroleum, 190°C to 220°C non-ret., dms., c.l., San Francisco and Los Angeles gal. .93 —
l.c.l., same basis gal. .95 .97
tanks, same basis gal. .85 —
210°C to 240°C, non-ret. dms., c.l., San Francisco and Los Angeles gal. .745 —
l.c.l., same basis gal. .765 .785
tanks, same basis gal. .665 —
235°C. to 271°C, non-ret. dms., c.l., San Francisco and Los Angeles gal. .62 —
l.c.l., same basis gal. .72 .74
tanks, same basis gal. .62 —
Crotonic, bbls., Canadian, works lb 35 —
Dichlorophenoxyacetic, (see "D", 2, 4-D)
Diethylbarbituric (see Barbital).
Diglycolic, bgs., works lb. .22 - —
Ethylhexoic, dms., c.l., works lb. .31 - —
l.c.l., works lb. .31½- —
tanks, works lb. .29½- —
F, bbls., works lb. 1.73 1.78
Folic, bots., fib. ctns., kilo or more gram. 2.00 - —
Formic, 85%, cbys., c.l., dlvd lb. 13 - .13½
l.c.l., dlvd lb. .13½- .14
90%, chys., c.l., dlvd lb. .13½- .14
l.c.l., dlvd lb. .14 - .14½
Fumaric, tech., bbls., dms lb. 30 .31
Gallic, NF V, bbls., 1,000-lb. lots, lb. 1.60 —
smaller lots lb. 1.63 1.65
technical, bbls., 1,000-lb. lots lb. 1.43 —
smaller lots lb. 1.46 1.48
Gamma, bbls. lb. 1.20 1.30
Gluconic, tech., 50%, bots lb. .23 .31
dms. lb. .14 —
kgs. lb. .16 —
Glutamic, laevo, 99%, fiber dms., 100 lb. lots, works lb. 2.30 2.40
25 lb. lots lb. 2.45 —
Glycerophosphoric, 35%, dms., works lb. 2.15 - —
Glycolic (see Acid, hydroxyacetic).
H, 100% basis, bbls., works lb. .73½- —
Hydriodic, 45-47%, cbys lb. 2.69 —
57%, cbys lb. 2.83 2.85
Hydrobromic, medicinal, 48%, cbys., dlvd E lb. .38 —
tech., 48%, cbys., dlvd E lb. .34 .36
34%, cbys., dlvd E lb. .35 .37
Hydrochloric (see Acid, muriatic).
Hydrocyanic, cyls., works lb. .80 1.00
dilute, NF, 2%, 5-lb bots lb. .30 .40
Hydrofluoric, anhyd., cyls., works lb. .19 .19½
tanks, works lb. .16½- —
30%, steel dms., works lb. .08½- .09
70%, steel dms., works lb .15¾ .16¼
Acid, hydrofluosilicic, 30-35%, bbls. lb. .08 - .09
Hydroxyacetic, tech., 70%, bbls., non-return., Phila lb. .084 - —
tanks, Belle, W. Va., 100% basis lb. .085 - —
Hypophosphorus, USP, djns lb. .75 - .77
J, bbls., works, 20% basis lb. 2.64 - 2.87
L, bbls., works lb. .80 - .95
Lactic, edible, 50%, bbls., 20 or more lb. .16 - .18
smaller lots lb. .17 - .19
80%, bbls., 20 bbls. or more, lb. .28½- —
plastic grade, 50%, bbls., 20 or more lb. .19¾- —
10 or less lb. .20¾- —
80%, bbls., 5 or less lb. .3370- .3400
tech., 22%, bbls., c.l., works 100 lbs. 5.80 - —
l.c.l., works 100 lbs. 6.20 - —
cbys., works 100 lbs. 6.70 - —
44%, bbls., c.l., works 100 lbs. 10.95 - —
l.c.l., bbls., works 100 lbs. 11.35 - —
cbys., works 100 lbs. 11.85 - —
NF, 85%, cbys lb. .69 - .72
Laurent's, bbls lb. .87 - —
Lauric, dist., 85-90%, dms lb. .40 - .40½
60%, dms lb. .35 - .35½
Linseed oil, reg dist., dms lb. .3180- .3230
water white, dms lb. .3480- .3530
Maleic, powd., dms lb. .30 - .31
Anhydride (see M).
Malic, dms. lb. .47 - —
Mandelic, NF, dms., 1,000-lb. lots lb. 1.85 - —
smaller lots lb. 1.90 - 2.10
Mixed, tanks, nitric unit lb. .05 - .06
sulphuric unit lb. .0085- .009
Molybdic, dms., 85%-92%, works lb. .92 - .95
Monochloroacetic, purified, flake, 99% dms lb. .23½ .24½
tech., flake 96-97% bbls lb. .19 - .21
Muriatic, 18°, cbys., c.l., E. works 100 lbs. 1.65 —
l.c.l., E. works 100 lbs. 2.05 - 2.75
tanks, E. works ton. 18.00 - —
20°, cbys., c.l., E. works 100 lbs. 1.90 - —
tanks, E. works ton. 20.00 - —
22°, cbys., c.l., E. works 100 lbs. 2.40 - —
tanks, E. works ton 25.00 - —
CP, USP, consumers, cbys., extra, c.l., frt. equald lb. .07¾- —
l.c.l., same basis lb. .09¼- .09¾
5 pint bottles extra, cs., c.l., frt. equald lb. .12¾- —
l.c.l., same basis lb. .14¼- .15¼

Acid, muriatic, CP, USP, prices to dealers 1½c. per pound less.

Myristic, dist., dms lb. .45 Nom.
Naphthenic, 220-230 acidity, dms., works lb. .15 —
tanks, works lb. .12 - —
230-240 acidity, dms., works lb. .22 - —
tanks, works lb. .19 - —
Naphthol(1)-4-sulphonic (see Acid, Neville and Winther's)
Naphthol (1)-5-suphonic see Acid, L).
Naphthol(1)-5-sulphonic,8-amino (see Acid, S).
Naphthol(1)-3,6-disulphonic,8-amino (see Acid, H).
Naphthol(2)-6,8-disulphonic (see Acid, Gamma)
(5)-7-Sulphonic,2-amino (see Acid, J).
Naphtholsulphonic, mixed (see Acid, Cleve's, mixed)
Naphthylamine(1)-5-sulphonic (see Acid, Laurent's).
(2)-6-sulphonic (see Acid, Broener's).
(2)-7-sulphonic (see Acid, F).
(2)-1-sulphonic (see Acid, Tobias).
Neville and Winther's, dms lb. .88 .91
Nicotinic, USP, dms., works kilo. 8.00 8.30
Nicotinic amide (see Nicotinamide).
Nitric, 36° cbys., c.l., E. works 100 lbs. 5.00 - —
l.c.l., E. works 100 lbs. 5.40 - 5.10
38°, cbys. c.l., E. works 100 lbs. 5.50 - —
l.c.l., E. works 100 lbs. 5.90 - 6.60
40°, cbys., c.l., E. works 100 lbs. 6.00 - 6.50
l.c.l., E. works 100 lbs. 6.40 - 7.10
42°, cbys., c.l., E. works 100 lbs. 6.50 - 7.00
l.c.l., E. works 100 lbs. 6.90 7.60
CP, NF, consumers, cbys., extra, c.l., frt. equald lb. .11½- —
l.c.l., same basis lb. .13 - .13½
5 pint bottles extra, cs., c.l., frt. equald lb. .15½- —
l.c.l., same basis lb. .17 - .18

Acid, muriatic, CP, USP, prices to dealers 1½c. per pound less.

Oleic (see Oil, red).
Oleum (see Acid, sulphuric, fuming).
Orthocresotinic, dms, c.l., works lb. .67 —
l.c.l. works lb. .69 —
Oxalic, bbls., c.l., works lb. .14½- —
10,000 lbs., works lb. .14¾- .15
smaller lots, works lb. .15¼- .15¾
Palm oil, white, dist., dms lb. .21¼ .21¾
Para-aminobenzoic, purified, dms., works lb. 4.00 Nom.
technical, dms., works lb. 1.70 - —
Para-aminosalicylic, dms., 100 lbs. lb. 20.00 - —
smaller lots lb. 20.15 -21.00
Paramethylphenylcinchonic (see Neocinchophen).
Paranitrobenzoic, cns. lb. .87 - —
Paratoluidinmetasulphonic, bbls., works lb. .92 .95
Peanut oil, s.d., dms lb. .12¼ Nom.
Perchloric, 60%, cbys., works lb. .58 62
70-72%, cbys., works lb. .61 .66
Phenylacetic, bots lb. 1.51 1.75
Phenylcinchoninic (see Cinchophen).
Phenylglycollic (see Acid, mandelic).

Abbreviations

Used in OPD Market Quotations

alld.	allowed	distr.	distributor	neut.	neutral
ammo.	ammonia	djns.	demijohns	NF	National Formulary
amorph.	amorphous	dlvd.	delivered		
anhyd.	anhydrous	dms.	drums	nom.	nominal
a.p.a.	available phosphoric acid	dom.	domestic	No.	number
		E.	east	ord.	ordinary
artif.	artificial	e.p.	end point	oz.	ounce
ASTM.	American Society for Testing Materials	equald.	equalized	Pac.	Pacific
		F.	fahrenheit	pf.	proof
Be.	Baume	ferment.	fermentation	phos.	phosphate
bgs.	bags	ffa.	free fatty acid	photo.	photographic
bbls.	barrels	ffc.	free from chlorine	pkgs.	packages
bls.	bales			powd.	powdered
bots.	bottles	fib.	fiber	precip.	precipitated
b.p.	boiling point	f.o.b.	free on board	prod.	producer
b.p.l.	bone phosphate of lime	F.P.A.	free of prussic acid	pt.	point
				pulv.	pulverized
b.r.	boiling range	frt.	freight	purif.	purified
bxs.	boxes	fus.	fused	redist.	redistilled
C	centigrade	gal.	gallon	refd.	refined
cbys.	carboys	gran.	granular	refy.	refinery
CD	completely denatured	grd.	ground	reg.	regular
		i.&a.	iron and aluminum	resub.	resublimed
c.i.f.	cost, insurance, freight			ret.	returnable
cks.	casks	i.b.p.	initial boiling point	SD	specially denatured
c.l.	car lots			s.d	single distilled
cns.	cans	imp.	imported	S. E.	southeast
col.	color	incl.	included	secs.	seconds
com'l	commercial	indust.	industrial	s.g.	specific gravity
conc.	concentrated	kgs.	kegs	ship't	shipment
CP	chemically pure	lacq.	lacquer	solut.	solution
cps.	centipoises	lb.	pound	s.u.	standard unit
cryst.	crystal	l.c.l.	less than car lots	synth.	synthetic
cs.	cases	liq.	liquid	tech.	technical
ctns.	cartons	m.a.p.	mixed aniline point	USP	U. S. Pharmacopoeia
cyls.	cylinders			vis.	viscosity
dbl.	double	min.	minimum	VM&P	varnish makers & painters
denat.	denatured	m.p.	melting point		
dest.-dist.	destructive-distilled			W	west
		N.	nitrogen	w.w.	water white
dextro.	dextrorotatory	nat.	natural	whse.	warehouse
dist.	distilled				

A unit-ton is 2,000 pounds of 1 percent of the basic constituent or other standard of the material. The percentage figure of the basic constituent multiplied by the price figure shown, gives the price of 2,000 pounds of the material

MAR 28 1949 XUM

Acid, Phosphoric—Althea Root

Acid, phosphoric, food grade, 75%, chys., c.l., works, frt. equald 100 lbs. 6.50 - —
t.c.l., works, frt. alld. 100 lbs. 7.50 - —
tanks, works, frt. equald 100 lbs. 4.50 - —
NF, 85%, chys., c.l. lb. .10½- —
For shipments in chys., add handling charges.
Picramic, bgs. lb. .65 - .70
Picric, tech., bbls. lb. .32 - .33
NF, bbls. lb. .42 - —
Propionic, nat., dms., works lb. .18 - —
tanks, works lb. .17 - —
synth., pure, dms., works lb. .22 - —
tanks, works lb. .21 - —
Pyrogallic, tech., bbls. lb. No prices.
NF, cryst., dms lb. 2.95 - 3.18
resub., dms lb 3.45 - 3.60
Pyroligneous bbls., incl., t.c.l., ex whse gal. .43 - —
Ricinoleate (see Acid, castor oil, split).
S, bbls., works lb. 2.97 - 3.00
Salicylic, tech., bbls., c.l. lb. .31 - —
smaller lots lb. .38 - —
USP, cryst., bbls., c.l. lb. .40 - —
smaller lots lb. .50 - —
powder, bbls., c.l. lb. .45 - —
smaller lots lb. .55 - —
Sebacic, purif., dms., c.l., works. lb. .54½- —
t.c.l., works lb. .56½- .60½
Soybean oil, single dist., dms lb. 11.40 -12.20
double dist., dms lb. 12.40 -13.40
Stearic, double pressed, bgs lb. .17 - .18
single pressed, bgs lb. .16½- .17½
triple pressed, bgs lb. .19¼- .20¼
Succinic, bbls., cryst., purified, works lb. .90 - —
tech., bbls., works lb. .75 - —
Sulphanilic, CP, bots., works lb. 1.60 - 1.63
tech., dms., works lb. .17 - —

Acid, sulphuric, 60°Be, chys., c.l., E. works 100 lbs. 1.40 - —
t.c.l., E. works 100 lbs. 1.80 - 2.50
tanks, E. works ton. 13.75 - —
66°Be, chys., c.l., E. works 100 lbs. 1.65 - —
t.c.l., E. works 100 lbs. 2.05 - 2.75
tanks, E. works ton. 17.00 - —
96%, tanks, E. works ton. 18.00 - —
CP, NF, consumers, chys., extra, c.l., works, frt. equald lb. .07¾- —
t.c.l., same basis lb. .09¼- .09¾
5 pt. bottles extra, cs., c.l., works, frt. equald lb. .11¼- —
t.c.l., same basis lb. .12¾- .13¾
fuming, 20%, tanks, E works. ton. 19.00 - —
Tallow, dist., dms lb. .11¼- .12¼
Tannic, tech., 60-62%, dms lb. .68 - .69
70-72%, dms. lb. .80 - .85
75-76%, dms. lb. .86 - .90
USP, fluffy, bbls., 1,000-lb. lots. lb. 1.45 - —
smaller lots lb. 1.47 - 1.55
powder, bbls., 1,000-lb. lots lb. 1.35 - —
smaller lots lb. 1.30 - 1.50
Tartaric, USP, dom., bbls., 10,000 lbs., 1 ship't. lb. .34½- —
smaller lots lb. .35 - —
100-lb. dms lb. .36 - —
small, dms lb. .38 - .40
imported, kgs lb. .34 - .36
Thioglycolic, refined, bbls., chys., basis 100% lb. 1.95 - 2.00
tech., bbls., chys., basis 100% lb. 1.40 - —
Tobias, bbls. lb. .65 - —
Trichloroacetic, bots. lb. 2.00 - 2.50
Toluenesulphonic, dms., works, t.c.l. lb. .20 - —
c.l., tanks lb. .18½- —
Tungstic, tech., 100 lb. pkgs. lb. 2.75 - Nom.

Aconite leaves, bls. lb. .55 - .60
Root, bbls. lb. .70 - .75
Aconitine, amorph., mild, bots. oz. 27.50 -32.50
cryst., potent, bots. oz. 85.00 - —
Acrylonitrile, dms., c.l., works lb. .33½- —
t.c.l., works lb. .34 - .45
tanks, works lb. .32½- —
Adeps lanae (see Lanolin)
Adonis vernalis herb, bls. lb. .35 - .40
Agar, USP lb. 3.25 - 4.10
Agaric, white, bls. lb. 1.75 - 1.80
Agrimony herb, bls. lb. .35 - .40
Alanine, dextro-laevo, dms., works, lb. 8.50 -11.00
Albumen (egg), edible, flake, bbls lb. 2.45 - 2.55
powd., bbls. lb. 2.50 - 2.60
tech., cryst., bbls. lb. 1.35 - 1.45
Albumin, blood, dark (see Blood, dried, soluble)
light, dms., t.c.l. lb. .70 - .75
Egg (see Albumen).
Alcohol, allyl, dms., c.l., dlvd. lb. .26½- —
t.c.l., dlvd. lb. .27½- —
tanks, dlvd. lb. .25 - —
Amyl, ex pentane, dms., c.l., frt. alld. E. of Miss. lb. .18 - —
t.c.l., frt. alld. E. of Miss. lb. .19 - —
tanks, frt. alld. E. of Miss. lb. .17 - —
(see also Fusel oil, ref.)
fermentation, refined, 126-132°C, dms., c.l., dlvd. no. .33½- —
t.c.l., dlvd. lb. .34½- —
tanks, dlvd. lb. .32 - —
128-132°C, dms., t.c.l., dlvd. lb. .36 - —
ACS grade, dms., t.c.l., dlvd. lb. .42 - —
Benzyl, cns. lb. .72 - .80
dms. lb. .68 - .88

Alcohol, butyl, normal, ferment, Ill., Ind, prod., dms., c.l., frt. alld. lb. .16½- —
t.c.l., frt. alld. E. lb. .17½- —
tanks, frt. alld. E. lb. .15 - —
tankwagon, frt. alld. E lb. .15½- —
other production, dms., c.l., frt. all. E. lb. .16½- —
t.c.l., frt. alld.E. lb. .17½- —
tanks, frt. alld. E. lb. .15 - —
synthetic, normal, dms., c.l. frt. alld. E. lb. .16½- —
t.c.l., frt. alld. E. lb. .17½- —
tanks, frt. alld. E. lb. .15 - —

Normal synthetic butyl alcohol prices in West .01c. per lb. higher.

secondary, dms., c.l., dlvd. lb. .12 - —
t.c.l., dlvd. lb. .12½- —
tanks, dlvd. lb. .10½- —
tertiary, dms., c.l. lb. .13½- —
t.c.l., dms. lb. .14 - —
tanks lb. .12 - —
Capryl, dms., c.l., works lb. .26 - —
t.c.l. works lb. .27 - —
tanks, works lb. .24½- —
Cetyl, dom., CP., fiber ctns., 1,000 lbs. lb. 1.50 - —
smaller lots lb. 1.55 - —
Cinnamic, bots lb. 2.80 3.55
Denatured, CD12, CD13, CD14, dms., dlvd. E. of Miss. R. gal. .34½- .35
t.c.l., dlvd. E. of Miss. R. gal. .38½- .44
tanks, dlvd. E. of Miss. R. gal. .25 - —

Tankcar sales require written authorizations by Alcohol Tax Unit.

SD1, 190 pf., dms., c.l., dlvd. E. of Miss. R. gal. .33½- .34
t.c.l., same basis gal. .37½- .43
tanks, same basis gal. .24 - —
SD2B, dms., c.l., E. of Miss. R. gal. .31½- .32
t.c.l., same basis gal. .35½- .41
tanks, same basis gal. .22 - —
SD23H, dms., c.l., dlvd. E. of Miss. R. gal. .34½- .35
t.c.l., same basis gal. .38½- .44
tanks, same basis gal. .25 - —
SD29, denatured, with acetaldehyde, dms., c.l., dlvd. E. of Miss. R. gal. .32 - .32½
t.c.l., same basis gal. .36 - .41½
tanks, same basis gal. .22½- —

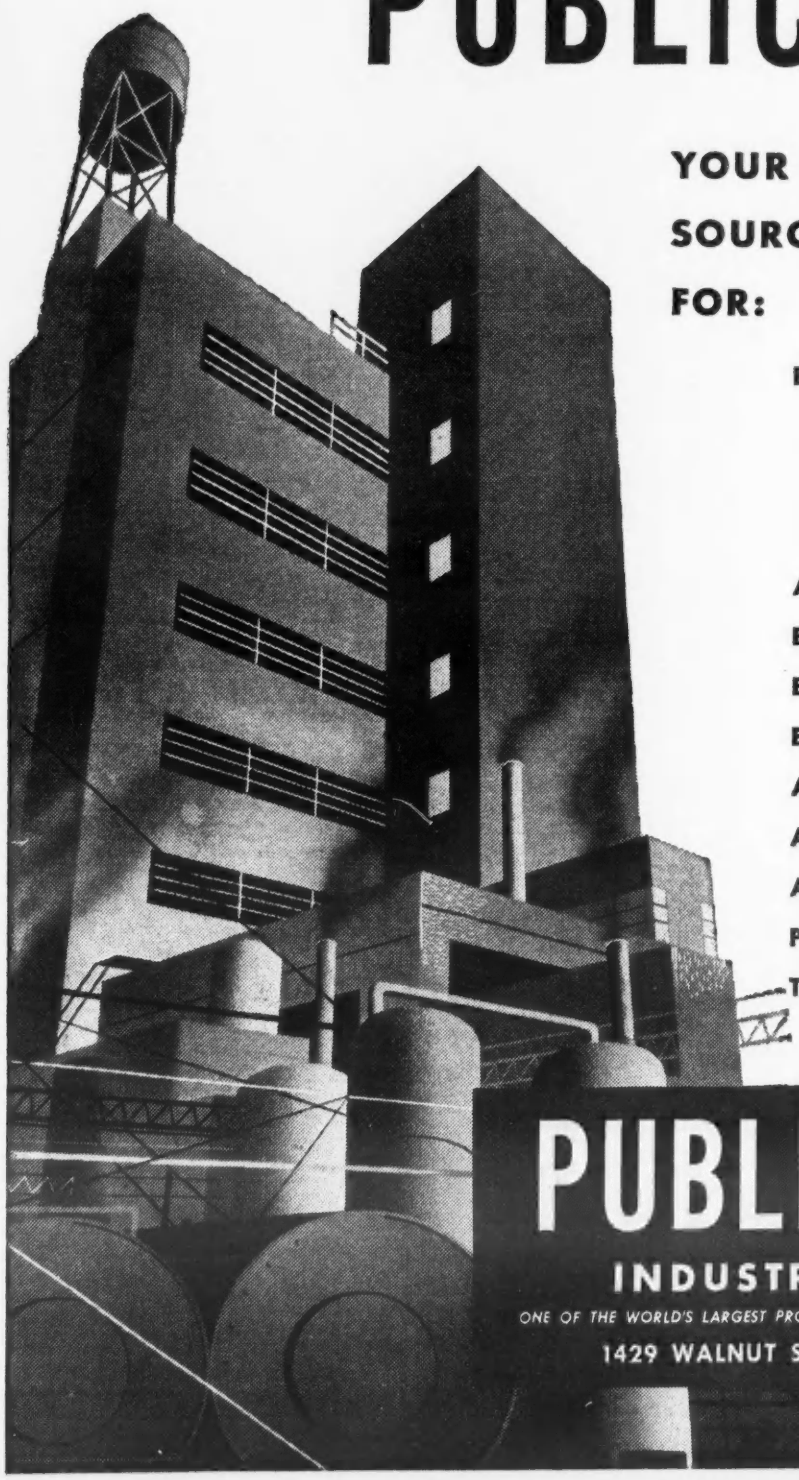
When any of the several SD29 denaturants is supplied by the purchaser, the prices are the same as those of SD21 plus 1½c. per gal. denaturing charge.

Proprietary solvent, dms., c.l., dlvd. E. Miss. R. gal. .34½- .35
t.c.l., same basis gal. .33½- .44
tanks, same basis gal. .25 - —

Tankcar sales require written authorization by Alcohol Tax Unit.

Special solvent (see Alcohol, denat., proprietary).

Diacetone, acetone free, dms., c.l., dlvd. lb. .13½- .16½
t.c.l., dlvd. lb. .14 - .17½
tanks, dlvd. lb. .12 - .15
tech., dms., c.l., dlvd. lb. .14 - .15½
t.c.l., dlvd. lb. .16 - .16½
tanks, dlvd. lb. .12½- .14
Ethyl, 190 pf., USP, tax paid, dms., c.l., dlvd. E. Miss. R. gal. 17.40½-17.41
t.c.l., same basis gal. 17.44½-17.50
tanks, same basis gal. 17.31 - —
tax free, dms., c.l., dlvd. E. Miss. R. gal. .30½- .31
t.c.l., same basis gal. .34½- .40
tanks, same basis gal. .21 - —
absolute, 200 pf., tax paid, dms., c.l., same basis gal. 18.37½-18.38
t.c.l., same basis gal. 18.41½-18.47
tanks, same basis gal. 18.28 - —
Ethylhexyl, dms., c.l., works lb. .30 - —
t.c.l., same basis lb. .30½- —
tanks, same basis lb. .28½- —
Furfuryl, tech., cns., works lb. .30 - —
dms., c.l., works lb. .21½- —
t.c.l., works lb. .23 - —
tanks, works lb. .18 - —
Isoamyl (see Alcohol, amyl, refined, fermentation).
Isobutyl, refd., dms., works lb. .13 - —
tanks, works lb. .12 - —
Isopropyl, refd., 91%, dms. incl., c.l., dlvd. gal. .32½- —
t.c.l., dlvd. gal. .35½- —
tanks, dlvd. gal. .22½- —
95%, dms. incl., c.l., dlvd. gal. .34 - —
t.c.l., dlvd. gal. .37 - —
tanks, dlvd. gal. .24 - —
NF, 99%, dms. incl., c.l., dlvd. gal. .35½- —
t.c.l., dlvd. gal. .38½- —
tanks, dlvd. gal. .25½- —
Methyl (see Metnanol).
Methylamyl (see Carbinol, methylisobutyl).
Octyl, perfumer's grade, bots. lb. 2.40 - —
Pantothenyl (see Panthenol).
Phenylethyl, cns. lb. 1.40 - 1.70
Polyvinyl, type A, fiber-pack, Niagara Falls lb. .65 - .70
type B, fiber-pack, same basis lb. .60 - .68
Propyl, normal, dms., c.l., works. lb. .12 - —
t.c.l., works lb. .12½- —
tanks, works lb. .10½- —
Salicyl (see Saligenin).
Tetrahydrofurfuryl, cns., Cedar Rapids, Ia. lb. .47 - —
dms., c.l., Waverly, N. Y. lb. .40 - —
t.c.l., same basis lb. .44 - —
tanks, Niagara Falls, N. Y. lb. .36 - —
Aldol, 95%, dms., works lb. .15 - .16
denaturing grade, dms. gal. 1.33 - 1.48
Aletris root, bgs. lb. 1.50 - 1.60
Algin, bbls., fib. dms lb. .76 - 1.00
Alizarin (see Red, alizarin).
Alkanet root, bgs. lb. .45 - .50
Allspice, Jamaica (see Pimento).
Mexican, bgs lb. .12½- .13
Allyl bromide, chys., 5,000 lbs., works. lb. .99 - —
smaller lots, works lb. 1.05 - 1.10
Chloride, dms., c.l., dlvd. lb. .16½- —
t.c.l., dlvd. lb. .17 - —
tanks, dlvd. lb. .15 - —
Aloe, cape, cs. lb. .35 - .40
Curacao, kgs. lb. .35 - .36
Socotrine, kgs lb. .35 - .36
Aloin, USP, bbls., dms., kgs lb. 3.75 - 4.05
Alphacellulose, bgs., c.l., works lb. .04 - .15
Alphanaphthol, bbls lb. .70 - —
Alphanaphthylamine, bbls lb. .41 - .42
Alphanaphthylthiourea, 93-98%, fib. dms., works, frt. alld. lb. 4.00 4.40
Alphanitronaphthalene, bbls lb. .37 - —
Alphapicoline, ret. dms., c.l., works, frt. equald lb. .27 - .30
t.c.l., works, frt. equald lb. .29½- .30
Alphapinene, tanks, South, works gal. .47 - —
Alphaterpineol, dms., t.c.l., dlvd. E. lb. .18 - —
Alphatocopherol, bots. kilo. 750.00 - —
Acetate, bots. kilo. 750.00 - —
Althea root, NF, peeled, bls. lb. .30 - .35



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BENZOYL CHLORIDE
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BENZYL BENZOATE
BENZYL CHLORIDE
BUTYL ACETATE
BUTYL ALCOHOL
CAFFEINE
CALCIUM CHLORIDE
CAUSTIC POTASH
CAUSTIC SODA
CELLULOSE ACETATE
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lump, bbls., works 100 lbs. 4.05 - —
powd., bbls., works 100 lbs. 4.20 - —
USP, burnt, bbls. lb. .20 - .21
hydrous, bbls. lb. .07¾- .08
Potash, gran., bbls., works 100 lbs. 4.05 - —
lump, bbls., works 100 lbs. 4.25 - —
powd., bbls., works 100 lbs. 4.45 - —
USP, hydrous, bbls. lb. .07¾- .08
Potash-chrome, bbls lb. 12½- .15
Soda, bbls., c.l., works 100 lbs. 3.25 - —
l.c.l., dlvd 100 lbs. 4.25 - 5.00
Alumina, calcined, bgs., c.l., works lb. .03½- —
l.c.l., works lb. .04¾- .06¾
crystalline (see Aluminum oxide).
Aluminum acetate, basic solution, 24%, bbls., l.c.l., works lb. .11 - —
20%, bbls., l.c.l., works lb. .10 - —
Chloride, anhyd., com'l, dms., c.l., works lb. .12 - —
l.c.l., works lb. .12½- —
cryst., com'l, dms., c.l., works lb. .06 - —
l.c.l., works lb. .06½- .06¾
NF, gran., dms., works lb. .27 - .28
solution, 32°, cbys., c.l., works lb. .02¾- —
l.c.l., works lb. .03¼- —
Fluoride, tech., anhyd., bbls., c.l., frt. equald lb. .10 —
l.c.l., frt. alld lb. .11 .13
Formate, basic solution, cks., c.l lb. .09½- —
l.c.l., works lb. .10 - —
Hydrate, heavy, bgs., c.l., frt. equald ton.50.00 -54.00
l.c.l., works ton.72.00 -86.00
light, bgs., dlvd lb .17 —
Hydroxide, gel, pharmaceutical, 14-15% Al_2O_3, fib. dms., works lb. .21¼- —
contract, works lb. .20¼- —

Aluminum hydroxide, pharmaceutical, 9-9½% Al_2O_3, fib. dms., works lb. .18¼- —
contract, works lb. .17¼- —
dried, USP XII, fib. dms., works, lb. .79½- —
contract, works lb. .76½- —
powder, tech. (see Aluminum hydrate).
Laurate, precip., bbls lb. .42 - —
Linoleate, solid, dms., frt. alld. lb. .48 - —
Metal, 98-99%, ingots, 10,000 lbs. lb. .27 - —
pigs, 10,000 lbs lb. .16 - —
Naphthenate, liq., 1.7%, frt. alld. lb. .24½- .25
Oleate, dms., contract lb. .43¾- —
Oxide, amorphous (see Alumina, calcined).
crystalline, 280-400 crystalline, flour, classified, 3-240 mesh, dms., frt. alld. lb. .14 - .15
kgs., ton, frt. alld lb. .12½- —
smaller lots, frt. alld. lb. .13 - .15
280-400 mesh, dms., frt. alld lb. .32 - .33
kgs., frt. alld lb. .31 - —
500 mesh, dms., frt. alld. lb. .35 - .37
kgs., frt. alld lb. .34 - —
600 mesh, dms., frt. alld. lb. .51 - .53
kgs., frt. alld lb. .50 - —
optical, floated, kgs., dlvd lb. .36 - .36
unclassified, dms., frt. alld. lb. .16 - .17
kgs., frt. alld lb. .15 —

Aluminum oxide, optical, high-purity, alpha or gamma, ultrafine, dms., works lb.13.50 - —
jars, works lb.15.00 -17.00
Aluminum oxide flour prices W. of Denver ¾c. per lb. higher.
Paste, lining, extra fine, dms lb. .58 - —
standard, dms lb. .39½- —
Powder, lining, extra fine, dms lb. .96 - —
standard, dms lb. .64½- —
rubber comp., dms lb. .48½- —
unpolished, standard, dms lb. .44½- —
varnish, standard, dms lb .49 —
Aluminum powder and paste prices are f.o.b. shipping point. Add 1c. per lb. for 100-lb. drs., 1½c. per lb. for 50-lb drs., 3c. per lb. for 10-lb. can, and 5c. to 12c. per lb. for smaller containers. Deduct 1c. per lb. for single shipment of 400 to 1,499 lbs., 2c. for 1,500 to 4,999 lbs., 3c. for 5,000 to 29,999 lbs., and 4c. for 30,000 lbs. or more. Where destination is within the continental U. S., a deduction equivalent to the lowest available common carrier transportation rate will be made from seller's invoice on orders of 200 lbs. or over.
Resinate, precip., dms., frt. alld. lb. .24¾- —
Stearate, dibasic, ctns., c.l. lb. .35 - —
l.c.l. lb. .36 - —
monobasic, ctns., c.l. lb. .35 - —
l.c.l. lb. .36 - —
tribasic, ctns, c.l lb. .35 - —
less than 1 ton lb. .36 - —
Sulphate, com'l, bgs., c.l., works, equald 100 lbs. 1.50 - —
l.c.l., same basis 100 lbs. 1.90 - —
Iron-free, bgs., c.l., works, frt. equald 100 lbs. 2.75 - —
l.c.l., works 100 lbs. 3.15 - —
NF, gran., dms., works lb. .27 - .28
powd., dms., works lb. .32 - .33
Trihydrate, heavy (see Aluminum hydrate).
Ambergris, gray, tins oz. 8.50 -12.00
Aminoazotoluene, bbls lb. .85 —

Aminomethylpropanol, cns., dms., works lb. .50 .60
Aminoethylethanolamine, dms., c.l., works lb. .51½- —
l.c.l., works lb. .52 - —
tanks, works lb. .50 - —
Aminophylline, USP, bots., kgs lb. 7.90 - 8.05
Aminopyrine, USP, bots., dms lb. 6.00 - 6.10
Ammonia, anhydrous, fertilizer, tanks, works ton.74.00 -85.00
pure, cyls., extra lb. .17 - .21
refrigeration, tanks, works ton.77.50 —
Aqua (29.4% NH_3), dms., c.l., works 100 lbs. 2.85 3.00
l.c.l., works 100 lbs. 3.25 3.50
tanks, works, anhyd. basis ton.76.00 -85.00
Ammoniac gum (see Gum, ammoniac)
Sal, gray, bgs., c.l., works, frt. equald 100 lbs. 7.50 - —
l.c.l., same basis 100 lbs. 7.90 - —
white, gran., bgs., c.l., works 100 lbs. 4.75 —
l.c.l., works 100 lbs. 6.25 - —
Ammoniacal liquor, tankcars, works. ton.80.00 -81.00
Ammonium acetate, purified, dms lb. .39 .40
reagent, jars lb. .61 .63
Benzoate, USP, dms., kgs., 4,000 lbs., frt. alld lb. .80 —
smaller lots, frt. alld lb. .81 1.08
Biborate, bbls., c.l., works ton.302.00 - —
ton lots, works ton.355.50 - —
less ton lots, works ton.360.50 - —
Bicarbonate, dms., works, c.l lb. .05½- —
l.c.l., works, dms lb. .06 - —
Bichromate, bbls., works lb. .26 .30
Bifluoride, dms., dlvd lb. .18 .18½
Bromide, gran., NF, bbls lb. .36 .37
cms. lb. .37 .40
powdered ammonia bromide 10c. per lb. higher.
Carbonate, USP, lump, dms lb. .18½- .22
powdered, 1c. per lb higher.
Chloride, tech. (see Ammoniac, saf).
USP, bbls., dms., kgs lb. .20 .22
Citrate, dibasic, bbls lb. .75 —
dms. lb .80 .85
Fluoride (see Bifluoride).
Hydroxide (see Ammonia aqua)
Hypophosphite, NF, dms lb. 2.40 —
Iodide, NF, jars lb. 3.96 - 4.00
Linoleate, plastic, 80%, dms., works lb. .40½- —
kgs., works lb. .42½- —
25%, dms., frt. alld lb. .21½- —
tech., bbls., works lb. .37 - —
dms., works lb. .39 - —
Molybdate, metal grade, kgs lb. .90 - —
chemical grade, bbls., kgs lb. .85 - —
A.C.S., grade, dms lb. .98 —
Nitrate, fertilizer grade, Canadian, 32.5% N, bgs., c.l., shipping point ton.79.50 —
dom., bgs., western works ton.58.00 -59.00
Nitrate-dolomite, 20.5% N, bgs., Hopewell, Va ton.46.00 - —
Oleate, dms. lb. .30¼- —
Oxalate, fine gran., dms lb. .25 - —
dms., 100 lbs., lots lb. .27 - —
Pentaborate, gran., bbls., c.l., works ton.512.00 - —
ton lots, works ton.26.50 - —
less ton lots, works ton.270.50 —
Ammonia pentaborate powder, $10 per ton higher.
Perchlorate, kgs lb. .25 —
Persulphate, kgs lb. .25½- .28¼
Phosphate, com'l, bgs., c.l., works, lb. .63 - —
l.c.l., works lb. .63½- —
dibasic, NF V, bbls., dms lb. .40 - —
tech., bgs., c.l., works lb. .63 - —
l.c.l., works lb. .63½- —
Salicylate, NF, dms., kgs lb 1.35 - 1.37
Silicofluoride, dms., works lb. .12 - .13
Stearate, 28%, dms lb. .21 - .31
paste, dms lb. .06½- —
Sulphamate, bbls., dms., works lb. .18 .20
Sulphate, bulk, producing ovens ton.45.00 -48.00
Sulphide, liquid, 40-45% basis, 100%, dms., c.l., works, lb. .10½- —
l.c.l., works lb. .15½- —
tanks, dlvd. or frt. alld lb. .09 —
Sulphocyanide, tech. (see Ammonium thiocyanate).
Thiocyanate tech., bbls., c.l., works lb. .15 —
l.c.l., works lb. .16 - .19
Thioglycolate, highly purified, 100% basis, cbys lb. 2.45 - —
commercial, same basis lb. 2.15 - —
Thiosulphate, jars lb. .32 - .36
Amphetamine hydrochloride, bots lb.45.00 -50.00
Phosphate, bots lb.45.00 -50.00
Amyl acetate, ex fusel oil, tech., dms., c.l., dlvd lb. .21½- .22
l.c.l., dlvd. lb. .22½- .23
tanks, dlvd. lb. .20½- —
ex pentane, dms., c.l., frt. alld. E. of Miss. R lb. .21½- —
l.c.l., same basis lb. .22½- —
tanks, same basis lb. .20½- —
Alcohol (see Alcohol, amyl).
Butyrate, dms lb. .90 1.00
Chloride, mixed, tech., dms., c.l., works lb. .07 - —
l.c.l., works lb. .08 - —
tanks, works lb. .06 - —
Ether (see Ether, amyl).
Mercaptan, dms., works lb. 1.10 - —
Nitrite, USP, bots lb. 1.75 - 1.83
Salicylate, cns lb. .77 - 1.03
Anethol, com'l, dms., works lb. .50 - —
NF, cns., dms lb. .77 - .82
Angelica root, dom., bls. lb. .90 - 1.00
imported, bls. lb. .98 - 1.00
Angostura bark, bls lb. .48 - .50
Anilin oil, dms., c.l., works, frt. alld lb. .16 - —
l.c.l., works, frt. alld lb. .17 - —
tanks, works, frt. alld lb. .15 - —
Salt, dms., works lb. .26 - —
Anise, Argentine, bgs lb. No stocks.
Chinese, star lb. .13 - .13½
Cyprus, bgs lb. .20 - .20½
Mexican, bgs lb. .18½- .19
Syrian, bgs lb. .17 - .17½
Anisic aldehyde, bots., dms lb. 2.10 - 2.20
Annatto paste, bxs lb. .34 - .37
Seed, bgs lb. .20 - .21
Anthracene, 80-85%, bbls., works lb. .60 - .86
90%, bbls., works lb. .81 - 1.00
Anthraquinone, 99.5%, bbls lb. .85 - —
Antimony butter (see Antimony chloride).
Chloride, solut., cbys lb. .29 - .30
Metal, bulk, c.l., mines lb. .38½- —
Needle, cs lb. No stocks.
Oxide, ceramic grade, bgs., c.l., dlvd. lb. .34 - —
l.c.l., dlvd lb. .35 - —
paint grade, bgs., c.l., works, lb. .35¾- .36
l.c.l., works lb. .36¾- .37
Salt, 65%, bgs., c.l., dlvd. E. of Miss. lb. No stocks.
Sulphide, 62-64%, bbls., c.l., works, lb. .26 - —
l.c.l., works lb. .28 - —
Antimony-potassium tartrate (see Tartar emetic).
Apomorphine, USP, bots. oz.23.20 -23.70
Apomorphine, bots oz.23.20 -23.70
Archil extract, bbls lb. No stocks.
Areca nuts, powd., bbls lb. .22 - .25

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VITAMIN A ACETATE "All the stability of the ester combined with all the blandness of the alcohol". A remarkably bland food product that will live up to your unitage claims over long periods of time.

VITAMIN A ALCOHOL An excellent product for use where shelf life is not over 30-45 days. Fulfilling the most exacting requirements for blandness with adequate stability over short periods.

Packed either in bulk or in batch size containers.

Potencies to suit your requirements.

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- Vitamin A Concentrate
- Vitamin D Concentrate
- Vitamin A and D Concentrates
- Vitab* Rice Bran Concentrate
- Calcium Pantothenate Dextrorotatory-Nopco
- dl-Calcium Pantothenate-Nopco
- Beta-Alanine
- Cholesterol

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Arecoline hydrobromide, NF, bots. oz. 6.10 - 6.75
Arginine hydrochloride, laevo kilo.140.00 -150.00
Argols, min. 70%, bgs., shipment ports, per 100 kilos (100% purity) 18.00 -18.50
Arnica, flowers, bls. lb. .45 - .90
root, bls. lb. 1.45 - —
Arrowroot, powd., bgs. lb. .13 - .16
Arsenic, metal, lump, bbls., prompt shipt. lb. .80 - .90
Sulphide, yellow, bbls. lb. No stocks.
Trioxide (see Acid, arsenous).
White, powd., bbls., c.l., dlvd. lb. .06 - —
l.c.l. lb. .06¾- .07
Asafetida, cs. lb. .35 - .36
powd., bbls., dms. lb. .50 - .53
Asbestine (see Talc, fibrous, N. Y.).
Asbestos fiber, 5D and 5K, bgs., c.l. (20 tons), Canadian mines ton.83.00 - —
5R, bgs., c.l. (20 tons), same basis ton.79.00 - —
6D, bgs., c.l. (30 tons), same basis ton.59.00 - —
7D, bgs., c.l. (30 tons), same basis ton.52.50 - —
7F, bgs., c.l. (30 tons), same basis ton.49.50 - —
7K, bgs., c.l. (30 tons), same basis ton.35.50 - —
7M, bgs., c.l. (30 tons), same basis ton.31.00 - —
7R, bgs., c.l. (30 tons), same basis ton.30.00 - —
7RF, bgs., c.l., same basis ton.31.00 - —
7T, bgs., c.l., same basis ton.26.50 - —
7TF, bgs., c.l., same basis ton.31.00 - —
Asphaltum, cut-back, tanks, tank wagon, refinery gal. .09½- —
Emulsion, tanks, tank wagon, refinery gal. .09½- .10
Gilsonite, brilliant black, selects 270°-295° F. fusing pt., bgs., f.o.b. Colo. mines ton.36.50 - —
seconds, 300°-390° F. fusing point, not uniform, bgs., Colo. mines ton.31.00 - —
jet, bgs., ton lots, gross weight, Colo. mines ton.36.50 - —
Manjak, No. 10, crude, dms., works lb. .06½- —
process form, bgs., works lb. .05¼- .12
Steam-refd., less than 30 penetration, bbls., tanks, tankwagon, refinery ton.23.00 - —
30-200 penetration, tanks, tank wagon, refinery ton.22.00 - —
Atropine, USP, bots. oz.13.50 -13.90
Sulphate, USP, bots. oz.10.55 -12.00

B

Bacitracin, bulk, unlabeled, topical, 2,000 units vial. .40 - —
10,000 units vial. .75 - —
50,000 units vial. 2.00 - —
Balm of Gilead buds, dried, bgs. lb. 1.50 - 1.75
Barbasco root (see Cube root).
Barberry root bark, bgs. lb. .78 - .80
Barbital, USP, dms. lb. 4.50 - —
Sodium, USP, dms. lb. 4.75 - —
Barium carbonate, precip., bgs., 10 tons and up, works ton.72.50 -80.00
smaller lots, works ton.82.50 -90.00
Chlorate, kgs., works. lb. .25½- .31
Chloride, NF, cryst., dms. lb. .17 - .18
tech., bgs., c.l., works, frt. equald. ton.90.00 - —
l.c.l., works. ton.100.00 - —
Chromate, bgs., frt. equald lb. .31½- .32
Dioxide, dms., c.l., works lb. .12 - —
l.c.l., works lb. .12 - —
Fluoride, bbls. lb. .21 - —
Hydrate, crystals, bgs. lb. .09 - .09½
Hydroxide, anhyd., bbls., works lb. .19 - —
Iodide, bots. lb. 5.12 - —
Monoxide (see Oxide).
Nitrate, bbls., c.l., works lb. .11½- —
l.c.l., works lb. .13 - —
Oxide, grd., dms., c.l., works lb. .11 - —
l.c.l., works lb. .11½- —
Peroxide (see Dioxide).
Silicofluoride, bbls. lb. .17 - .19
Stearate, cns., 1-ton up lb. .39 - .40
smaller lots lb. .40 - .41
Sulphate, tech. (see Barytes and Blanc fixe).
X-ray, bbls. lb. .12½- .13
Sulphide, dms., c.l., works ton.55.00 - —
l.c.l., works ton.70.00 - —
Baryte ore, approx. 94% $BaSO_4$, bulk, mines ton. 9.40 -12.50
Barytes, water-grd., paper bgs., c.l., St. Louis ton.35.05 - —
l.c.l., same basis ton.36.35 - —
ex whse., N. Y. ton.49.65 - —
Southern off-color, bgs., mines ton.19.00 - —
95.75%, bgs., mines ton.20.00 - —
Barberry bark, bgs. lb. .12 - .13
Bay leaves (see Laurel leaves).
Belladonna leaf, bls lb. 1.10 - 1.25
Root, bls. lb. .55 - .60
Bauxite, bulk, mines ton. 8.50 -10.00
Bentonite, 200 mesh, bgs., works ton.11.00 - —
Benzaldehyde, NF, dms. lb. .68 - .90
tech., cbys., dms. lb. .45 - .55
Benzene (see Benzol).
Hexachloride, tech., 11% gamma, bgs., dms., c.l., works lb. .27½- —
l.c.l., works lb. .29¼- —
dust, dry, 50%, 6% gamma, distributors, dms., c.l., dlvd. lb. .18 - —
l.c.l., dlvd. lb. .19 - —
wet, 50%, 6% gamma, distributors, dms., c.l., dlvd lb. .19½- —
l.c.l., dlvd. lb. .20½- —
Benzidin base, bbls lb. 1.02 - —
Benzocaine, cns lb. 3.25 - 3.35
Benzol (benzene), pure, nitration, tanks, works, Bethlehem, Pa., Dangerfield, Tex., Lackawanna, N. Y., Philadelphia, Pa., Sparrows Point, Md., St. Louis, Mo., Syracuse, N. Y., Wyandotte, Mich. g.d., Birmingham, Ala., Chicago district, Cleveland district, Johnstown, Pa., Minequa, Colo., Pittsburgh district, Terre Haute, Ind., Woodward, Ala., Youngstown, Ohio. gal. .21 - —
Benzophenone, dms. lb. 1.30 - 1.70
Benzothiazyl disulfide, 50-lb. bgs., 150-lb. containers, works, frt. alld., ton lots lb. .35 - —
less ton lots, same basis lb. .37 - —
Benzoyl chloride, c.l., cbys. lb. .20 - .28
l.c.l., works lb. .22½- —
Peroxide, pure, fib. ctns., works lb. .90 - 1.05
Benzyl acetate, f.f.c., dms. lb. .60 - 1.00
dms. lb. 60 - .70
Alcohol (see Alcohol, benzyl).
Benzoate, USP, f.f.c., cns., dms lb. .88 - 1.00
Chloride, tech., cbys., c.l., works, frt. equald lb. .19 - .21½
l.c.l., same basis lb. .20 - .22½
Cinnamate, cns lb. 3.45 - 4.00
Formate, cns. lb. 1.95 - 3.50
Propionate, bots. lb. 1.55 - 2.30
Salicylate, bots. lb. 1.80 - 2.25
Benzylidinacetone, bots. lb. 1.35 - 2.70
Benzylisoeugenol, bots lb. 8.90 - 9.00
Berberine bisulphate, cns. lb. No stocks
Hydrochloride, bots. lb. No stocks
Sulphate, cns. lb. No stocks
Berberis root, bls. lb. .30 - .35
Betagammapicoline, dms., c.l., works, lb. .21 - .23½
l.c.l., works lb. .21½- 24
Betanaphthol, resublimed, dms., works lb. .75 - —
tech., bbls., c.l., works lb. .30 - —
l.c.l., works lb. .32 - —
Benzoate, fib. dms., works lb. 1.75 - —
Salicylate, dms. lb. 5.00 - —
Betanaphthylamine, tech., bbls., works lb. .73 - .80
Betaphenylethylamine, dms., works, 1,000-lb. lots lb. 1.45 - —
smaller lots lb. 1.60 - —
Betapicolin, 90%-95%, dms., c.l., works lb. 1.35 - —
98%, dms., c.l., works lb. 1.85 - —
Beth root, bls. lb. .45 - .50
Biotin, cryst. gram.12.50 - —
Bismuth chloride, jars lb. 3.95 - —
Citrate, USP VIII, jars lb. 3.27 - —
Hydroxide, dms lb. 4.18 - —
Metal, bxs., ton lots lb. 2.00 - —
Nitrate, cryst., dms lb. 1.85 - —
Oxychloride, dms lb. 3.97 - —
Oxide, anhydrous, dms lb. 4.60 - —
Phenolsulphonate, fib. dms lb. 4.70 - —
Subcarbonate, USP, dms lb. 2.80 - —
Subgallate, NF, fib. dms lb. 2.75 - —
Subiodide, fib. dms. lb. 4.90 - —
Subnitrate, NF, dms lb. 2.30 - —
Subsalicylate, USP, dms lb. 3.20 - —
Bismuth-ammonium citrate, USP, powd., dms lb. 3.80 - —
Black, acetylene, bgs., c.l., works lb. .13½- —
cs., l.c.l. shipt. point lb. .17 - .19
Bone, bgs., bbls., l.c.l., dlvd. lb. .14⅜- .22⅝

Carload price ½c. per lb. less. Deliveries to the Pacific Coast, ex dock or whse., 1½c. per lb. higher.

Black, carbon, channel, beads, bulk, c.l., works lb. .07 - —
bgs., c.l., works lb. .0740- —
l.c.l., dlvd. or whse. lb. .11¼- .117
uncompressed, regular, bgs., c.l., works lb. .0632- —
bgs., ctns., l.c.l., dlvd. or whse lb. .13¾- —
furnace, fast extruding, bgs., c.l., works lb. .05½- —
ctns., l.c.l., whse lb. .09½- —
high modulus, bgs., c.l., works, lb. .05 - —
ctns., l.c.l., whse lb. .09 - —
semi-reinforcing, bgs., c.l., works lb. .03½- —
ctns., l.c.l., whse lb. .07½- —
very fine, bgs., c.l., works lb. .0740- —
l.c.l., dlvd. or whse lb. .1125- .1170
Charcoal (see C).
Graphite (see G).
Iron oxide, synthetic, bgs., c.l., works lb. .10¾- —
l.c.l., works lb. .11 - —
Lamp, bgs., c.l., works lb. .07 - .30
Mineral, bgs., works lb. .0160- .0675
Black ash (see Barium sulphide).
Blackberry root, bls. lb .12 - .13
bark of root, bls. lb. .32 - .33
Black dyes (see Dyes).
Black haw, root bark, bls. lb. .78 - .82
Tree bark, bls lb. .28 - .30
Black Indian hemp root, bls lb. .48 - .52
Blanc fixe, dry, by-product, bgs., c.l., works ton.77.50 - —
l.c.l., works ton.85.00 - —
direct process, bgs., c.l., works ton.95.00 - —
l.c.l., works ton.90.00 - —

Arecoline Hydrobromide—Blue, Peacock

Blanc fixe, dry, direct process, bgs., l.c.l., N. Y. whse ton.108.00 - —
bbls., c.l., works ton.90.00 - —
l.c.l., works ton.95.00 - —
N. Y. whse. ton.113.00 - —
pulp, 66⅔%, bbls., c.l., works, ton.67.00 - —
l.c.l., same basis ton.73.00 - —
Bleaching powder, dms., c.l., works, 100 lbs. 4.25 - —
l.c.l., works 100 lbs. 4.75 - —
Blood, dried, 16-16½% ammo., bgs., unit-ton. 7.50 - 8.00
high-grade, unground, 16-17% ammon, bulk, Chicago, unit-ton. 8.00 - —
soluble, bgs., c.l. lb. .17 - .19
l.c.l. lb. 18 - 25
Bloodroot, bls lb. .55 - .65
Blue, alkali, dry, bbls., dlvd. N. of Tenn. and N. C., E. of Miss. R. including St. Paul, Minneapolis, Davenport, Rock Island, St. Louis lb. 1.90 - —
Toner, bbls., litho flushed, same basis lb. 1.10 - —
Celestial, bbls., same basis lb. .15 - .16
Chinese, bbls., same basis lb. .45 - —
Cobalt, genuine, bbls., same basis lb. 4.90 - —
Imitation (see Blue, ultramarine).
Copper-phthalocyanine, full strength, bbls., same basis lb. 3.75 - 3.85
80%, bbls., same basis lb. 3.00 - 3.40
Iron (see Blue, Chinese, Milori, Potash, Prussian, and Soda).
Methyl violet toner, bbls., same basis lb. 4.20 - —
Milori, bbls., same basis lb. .45 - —
Peacock, fugitive, 100% color strength, same basis lb. .60 - .70

ACETONE, C. P.

POTASSIUM PERMANGANATE U. S. P. PELLETS
FORMIC ACID 90%
DIMETHYLANILIN
PARA-AMINOPHENOL
METHANOL, Pure Synthetic
CAFFEINE CITRATED, U. S. P.
MAGNESIUM OXIDE Heavy
SODIUM BICHROMATE
SODIUM SULFATE, ANHYDROUS
ANILIN OIL
BENZIDINE BASE
TRICHLORETHYLENE

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GOLWYNNE CHEMICALS CORPORATION

GOLWYNNE

Blue, Permanent Toner—Calcium Sulphate

Blue, permanent toner, green shade, molybdic, bbls., same basis lb. 3.75 - —
Tungstic lb. 4.00 - —
Potash, CP, bbls., same basis lb. .51 - —
Prussian, bbls., same basis lb. .45 - —
soluble, bbls., same basis lb. .45 - —
Soda, C.P., bronze, bbls., same basis lb. .39 - —
Ultramarine, cobalt type, dry or pulp, bbls., same basis lb. .25 - .26½
jobbing type, dry, bbls., same basis lb. .14 - —
regular types, dry or pulp, bbls., same basis lb. .19 - .29
Victoria toner, molybdic, bbls lb. 3.75 - —
Tungstic, bbls lb. 3.75 - —
Violet toner, molybdic, bbls., same basis lb. 1.24 - —
Tungstic, kgs., same basis lb. 2.60 - 2.70

Blue dry colors, dlvd. prices ½c. higher Ala., Fla., Ga., La. (Shreveport, 1½c.), Miss., N. C., S. C., Tenn., Tex. (El Paso, 2c.), Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph, 1.6c. higher, Pac. Coast, Denver, Pueblo, Salt Lake City, Wichita frt. equalized with Chicago.

Blue dyes are listed under Dyes.

Blueflag, root, bls. lb. .55 - .60

Bluestone (see Copper sulphate).
Blue vitriol (see Copper sulphate).
Boldo leaves, bls. lb. .08 - .09
Bone, raw, bulk, Chicago ton.75.00 - —
junk, bulk, same basis ton.50.00 - 52.00
Meal, raw, 4½% ammon., 50% phos., bgs., E. works ton.65.00 - —
Chicago, works ton.65.00 - —
steamed, feeding grade, 1% ammon., 60% phos., bgs., E. works ton.70.00 - —
Chicago, works ton.70.00 - —
Bone meal, fertilizer grade, 3% ammon., 50% phos., bgs., E. works ton.65.00 - —
Chicago, works ton.65.00 - —
Phosphate, defluorinated (see D).
precipitated (see Calcium phosphate tribasic precip).
Boneset leaves, bls. lb. .15 - .16
Borage flowers, bls lb. .43 - .50
Borax, tech, anhydrous, bgs., c.l., works ton.78.00 - —
ton lots, ex whse, N. Y. or Chi ton.122.75 - —
less ton lots, same basis, ton.127.75 - —
bbls., c.l., works ton.98.00 - —
ton lots, ex whse, N. Y. or Chi ton.142.75 - —
less ton lots, same basis, ton.147.75 - —
bulk, c.l., works ton.71.50 - —
crystals, 99½%, bgs., c.l., works. ton.61.25 - —
ton lots, ex whse, N. Y. or Chi ton.106.00 - —
less ton lots, same basis, ton.111.00 - —
bbls., c.l., works ton.81.25 - —
ton lots, ex whse, N. Y. or Chi ton.126.00 - —
less ton lots, same basis, ton.131.00 - —
bulk, c.l., works ton.57.25 - —
granular, 99½%, bgs., c.l., works ton.35.25 - —
ton lots, ex whse, N. Y. or Chi ton.80.00 - —
less ton lots, same basis, ton.85.00 - —
Borax, tech., gran., bbls., c.l., works ton.55.25 - —
ton lots, ex whse, N. Y. or Chi ton.100.00 - —
less ton lots, same basis, ton.105.00 - —
bulk, c.l., works ton.31.25 - —
powdered, bgs., c.l., works ton.40.25 - —
ton lots, ex whse, N. Y. or Chi ton.85.00 - —
less ton lots, same basis, ton.90.00 - —
bbls., c.l., works ton.60.25 - —
ton lots, ex whse, N. Y. or Chi ton.105.00 - —
less ton lots, same basis, ton.110.00 - —
bulk, c.l., works ton.36.25 - —

Borax packed in kgs. is $4@ per ton higher than borax packed in paper bgs. USP borax $15 per ton higher than tech.

Bordeaux mixture, bgs., c.l., works, frt. alld. or nearest whse. point lb. .15 - .21
l.c.l., same basis lb. .16 - .23
Bornyl thiocyanoacetate (see Isobornyl thiocyanoacetate).
Brazilwood extract (see Hypernic).
Brimstone (see Sulphur).
Bromine, purified, cs., c.l., frt. alld. E. of Rockies lb. .21 - —
1,000 lbs., same basis lb. .23 - —
single pkgs., same basis lb. .28 - —
dms., lead-lined, c.l., dlvd lb. .19 - —
Bromoform, USP, bots lb. 1.50 - 1.70
cbys. lb. 1.42 - —
Bromstyrol, bots lb. 4.85 - 6.25
Bronze powder, aluminum (see A).
Gold, litho., cans, dms., works lb. .50 - .60
moulding, cans, dms., works lb. .80 - 1.00
printing ink, cans, dms., works lb. .95 - 1.10
radiator, cans, dms., works lb. .60 - .65
Broomtop, bls. lb. .25 - .26
Brown, iron, synth., bgs., l.c.l., works lb. .12½ - —
Oxide, metallic, bgs., works lb. .03 - .03¼
Sap, crystals, works lb. .12 - —
powdered lb. .13 - —
Sienna, burnt, paper bags., c.l., works lb. .03¾ - .14¾
l.c.l., works lb. .04 - .15
raw, paper bgs., c.l., works lb. .04 - .12½
l.c.l., works lb. .04¼ - .12¾
Umber, burnt, American, c.l., bbls., works lb. .04¾ - .05¾
l.c.l., bgs., works lb. .05 - .06¾
Turkey type, bgs., c.l., Boston, Bethlehem, Easton, Pa., Hiwassee, Va., N.Y. lb. .05¾ - .07¾
l.c.l., works lb. .06 - .08
raw, American, bgs., same basis lb. .03¾ - .06
Turkey type, bgs., same basis lb. .06 - .06¾
Vandyke, bbls., works lb. .09¾ - .12
Brucine, cns., 100 ozs oz. .40 - .50
Sulphate, NF, cns., 100 ozs oz. .30 - .40
Bryonia root, bls lb. .34 - .36
Buchu leaves, bls. lb. .65 - .90
Buckthorn bark, bls lb. .23 - .24
cut and sifted, bls lb. .26 - .28
Berries, bgs. lb. .85 - 1.00
Burdock, root, bls. lb. .23 - .25
Butadiene, cyls., refy lb. 1.0 - —
tanks, same basis lb. .11½ - —
Butane, indust., tanks, group 3 g.l. .05 - —
Butyl acetate, normal, ferment, Ill., Ind., prod., dms., c.l., works, frt. alld. E. of Miss lb. .16½ - —
l.c.l., same basis lb. .17½ - —
tanks, same basis lb. .15 - —
tankwagons, same basis lb. .15½ - —
other production, dms., c.l., same basis lb. .16½ - —
l.c.l., same basis lb. .17½ - —
tanks, same basis lb. .15 - —
synthetic, normal, dms., c.l., same basis lb. .16½ - —
l.c.l., same basis lb. .17½ - —
tanks, same basis lb. .15 - —
secondary dms., c.l., dlvd. E. of Miss lb. .13 - —
l.c.l., same basis lb. .13½ - —
tanks, same basis lb. .11½ - —

Normal butyl acetate W. of Miss., ½c. per lb. higher.

Alcohol (see Alcohol, butyl)
Aldehyde, dms., c.l., works lb. .20½ - —
l.c.l., works lb. .21½ - —
tanks, works lb. .19½ - —
Ether (see Ether, butyl).
Isobutyl methacrylate, P-5, 50/50, cns., works lb. .60 - —
Lactate, dms., c.l., frt. alld. E. of Rockies lb. .42½ - —
l.c.l., same basis lb. .43½ - —
tanks, same basis lb. .41 - —
Laurate, dms., works lb. .42 - —
Methacrylate, M-4, dms., works lb. .60 - —
cns., works lb. .63 - .67
P-4, cns., works lb. .65 - —
Myristate, dms., works lb. No prices.
Oleate, refd., dms., l.c.l., works lb. .52 - —
Phenylacetate, dms lb. 2.00 - 2.25
Phthalate (see Dibutyl phthalate).
Propionate, dms., dlvd lb. No stocks
tanks, dlvd. lb. No stocks
Stearate, dms., c.l., frt. alld. E. of Rockies lb. .36½ - —
l.c.l., same basis lb. .37½ - —
Butyric ether (see Ethyl butyrate)

C

Cacao butter (see cocoa butter).
Cadmium bromide, jars lb. 2.49 - 2.50
Iodide, jars lb. 5.10 - —
Lithopone (see Yellow).
Metal, ingots or sticks, cs., dlvd lb. 2.00 - —
patent shapes, cs., dlvd lb. 2.15 - —
Selenide (see Red).
Sulphide (see Yellow).
Caffeine, USP, cryst., dms., 100 lbs or more lb. 4.75 - 5.00
anhydrous, dms., 100 lbs. or more lb. 5.00 - —
Citrated, USP, dms., 100 lbs. or more lb. 3.00 - —
Hydrobromide, bots. lb. 6.50 - —
Calabar beans, bgs., futures lb. .65 - .66
Calamine, USP, dms lb. .27 - .29
Calamus root, dom., bgs. lb. .28 - .30
imported, bleached, bls lb. .70 - .88
peeled, bls lb. .30 - .31
Calciferol, cryst., vials, 10,000 or more standard units (1 standard unit=1,000,000 USP units), works gram 4.00 - —
1,000 to 10,000 s.u., works gram 4.40 - —
less than 1,000 s.u., works gram 4.80 - —
In edible oil, dms., 10,000 or more unit .10 - —
1,000 to 10,000 s.u., works unit .11 - —
less than 1,000 s.u., works unit .12 - —
Calcium acetate, bgs., dlvd 100 lbs. 3.00 - 4.00
Arsenate, dealers, dms., c.l., whse., works, frt. alld lb. .10½ - —
l.c.l., same basis lb. .11½ - —
Bromide, NF, jars lb. .75 - .85
Carbide, dms., c.l., works ton.114.00 - 154.00
Carbonate (see Chalk and Whiting).
Chloride, cryst., purified, bbls., jars lb. .28 - .30
flake, 77-80%, paper bgs., c.l., works, frt. equald ton.22.00 - —
l.c.l., same basis ton.37.00 - 67.00
liquor, works, basis 40%, tankcars ton. 9.00 - —
solid, 73-75%, dms., c.l., works, same basis ton.20.00 - —
l.c.l., works, same basis ton.30.00 - 59.00
USP, gran., bbls lb. .30 - —
Chromate, bgs., frt. equald lb. .29½ - .30
Cyanide, dms., dlvd. E. of Rockies. lb. .30 - .50
Gluconate, AA, bbls lb. .65 - .72
cns. lb. .83 - .90
USP, bbls. lb. .58 - .65
cns. lb. .76 - .83
Glycerophosphate, NF, fib. cans. lb. 1.65 - 1.80
Hydride, dms., works lb. .90 - —
Hypochlorite, 100-lb. dms., dlvd. E. of Rockies dm.24.00 - 28.50
cns., cased (45 lbs.) same basis cs.19.75 - 21.50
Hypophosphite, 50-lb. lots, dms lb. .80 - .85
Iodide, jars lb. 4.12 - —
Lactate, USP, dms lb. .37 - .44
Mandelate, USP, dms., works lb. 1.85 - 2.10
Naphthenate, liq., 4% Ca, dms., frt. alld lb. .23¾ - .24¼
Pantothenate, dextro, jars gram .07½ - —
Phenolsulphonate, dms lb. .59 - .60
Phosphate, dibasic, USP, bgs., c.l., 100 lbs. 6.75 - —
l.c.l. 100 lbs. 7.10 - 7.45
feed grade, bgs., 10 tons, works. ton.105.00 - —
one ton or over, works ton.115.00 - —
less than one ton, works ton.125.00 - —
monobasic, bgs., 10,000 lbs., works, frt. equald lb. .05¾ - —
less, same basis lb. .06¼ - —
tribasic, bgs., c.l., works 100 lbs. 6.50 - —
l.c.l., works 100 lbs. 6.95 - 7.30
Phytate, bgs., works lb. .22 - —
Resinate, precip., dms., frt. alld. works lb. .24 - —
Silicate, hydrated, bgs., c.l., works lb. .05½ - —
l.c.l., works lb. .06 - —
Stearate, precip., cns., c.l., works. lb. .36 - —
l.c.l., works lb. .37 - .38
Sulphate (see Gypsum).

Pale yellow white powder.
Slightly soluble in water, soluble in warm alcohol, insoluble in ether and carbon tetrachloride.

SUCCINBROMIMIDE
(N-Bromosuccinimide)

efficacious
BROMINATING AGENT
for use in the manufacture of certain synthetic vitamins and hormones where selective brominations are required.

Pharmaceutical Laboratories
National Aniline
DIVISION OF ALLIED CHEMICAL & DYE CORPORATION
40 RECTOR STREET NEW YORK 6, N. Y.

Calcium sulphide, 76%, bgs., c.l., works ton 45.00 - —
70%, bgs., c.l., works ton 50.00 - —
luminous tins, works lb 1.25 —
Calcium-strontium sulphide, phosphorescent, dms., works lb 1.06 1.50
fine particle size, dms., works lb 1.50 1.75
Calendula flowers, bls lb .50 .65
Calomel, USP, cryst., dms lb 1.82 1.83
fine powd., dms lb 1.97 1.98
Camphene, chlorinated, 67-69% (see Toxaphene).
Camphor, NF, monobromated, dms., kgs lb 3.10 - 3.20
Camphor, natural lb No stocks
synth., tech., bbls., 2,000 lbs. or more, works lb 42 —
10 bbls. (1,500 lbs.) lb 44½ —
smaller lots lb 45 .55
USP, gran., powd., bbls., 2,000-lb. lots lb .58 —
1,000-lb. lots lb .59 —
smaller lots lb .60 —
tablets, tins, 2,000-lb. lots lb .78 —
1,000-lb. lots lb .79 —
smaller lots lb .80 —
Canada balsam (see Fir balsam).
Cantharides, Chinese, cs lb 1.10 1.30
powd., bxs lb 1.25 - 1.50
Russian, bgs lb 5.00 - 5.25
powd., bxs lb 5.75 6.00
Capsicum (see Pepper, red).
Oleoresin, NF VIII, cns lb 6.50 6.75
Caramel coloring, NF, bbls gal 1.05 - —
Caraway seed, Danish, bgs lb .18½ - .18¾
Dutch, bgs lb .18½ - .19
Carbazole, 97%, steel drs., ton lots, works lb 1.75 —
fib. drms., same basis lb 1.70 —
Carbinol butyl, normal (see Alcohol, amyl, refined)
secondary, drms., l.c.l., works lb .70 —
Methylisobutyl, drms., c.l., frt. alld. E lb .14½ —
l.c.l., same basis lb .15 —
tanks, same basis lb .13 —
Carbon bisulphide, 50-gal. drms., c.l., works, frt. alld. to competitive points lb .06¼ —
l.c.l., same basis lb .07¼ —
5-gal. drms., same basis lb .08¾ —
l.c.l., same basis lb .0[illegible] —
Dioxide, cyls lb .06 .08
Tetrachloride, CP, drms., works lb .09 .11½
tech., drms., E. of Rockies, c.l., frt. alld lb .08 —
l.c.l., same basis lb .08½ —
W. of Rockies, c.l., f.o.b. stock points lb .08½ —
l.c.l., frt. alld. lb .09 —
NF, cbys lb .17 - .19
Carboxymethylcellulose-Sodium—See CMC.
Carbromal, NF, drms., ton lots, works lb 4.25 - —
100-lb. lots, works lb 4.75 - —
Cardamom fruit, bleached, bold, cs lb 3.25 - 3.30
medium, cs lb 3.00 - 3.10
Coorges, cs., futures lb 2.10 - 2.20
decorticated, Guatemalan, cs., futures lb 2.15 - 2.20
Indian, cs., futures lb 2.25 Nom.
green, Alleppey, bgs., futures lb 2.20 - 2.25
Seed (See Cardamom fruit, decorticated).
Carmine, No. 40, NF, bulk, 100 lbs. or more lb 5.50 —
smaller lots lb 5.65 6.15
Carotene, crystals, research grade, ampuls, pure alpha or beta, 10 mg 5.00 - —
90% beta-10% alpha, ampuls 100 mg 2.00 - —
bulk grain quantities gm 5.00 —
technical, 1,350,000 A units per gram gm 67½ - —
tins, works gm 62 - —
dry powder, 3,330 A units per gram lb 70 - —
emulsion (in milk), 500,000 A units per 16-oz. cn cn 85 - —
in vegetable oil, 250,000 A units per gram lb 7.24 - —
50,000 A units per gram lb 7.37 - —
26,000 A units per gram, tins, works milli. units 32 - —
drms., works milli. units 30 - —
3,330 A units per gram lb 85 - —
microcrystalline, in oil, 400,000 A units per gram, tins, works milli. units .50 —
Carvol, bots lb 10.00 - 16.00
Cascara sagrada bark, bulk lb .32 - .35
Case-hardening mixture, 30% gran., drms., l.c.l., dlvd lb 09¾ —
Casein, dom., acid-precip., bgs., 10,000 lbs. or more, ship't point lb .21¾ - .22½
rennet-precip., 10,000 lbs. or more, same basis lb .34 Nom.
imported, acid-precip., ground, bgs. or more lb .21¾ - .22
rennet-precip., unground, 100 or more lb .30 Nom.
Cashew nut liq., treated, drms., c.l., f.o.b. Newark, N. J. lb .21 —
ton lots, same basis lb .22½ - —
drm. lots, same basis lb .24½ - —
Cassia bark, Batavia, longstick bls lb .30 - .31
broken, bls lb .27 - .27½
short stick, bls lb .25 - .26
China, Canton, rolls, select, cs lb .09 - .09¼
broken, bls lb .07½ - .08
Honan, bls lb .17 - .18
Saigon, broken, bls lb .25 - .26
medium, bls lb .33 - .34
thin, bls lb .38 - .39
Buds, China, bgs lb .26 - .26½
Cassia fistula, bskts lb .30 .35
Castor beans, bgs., Brazilian ports long ton 110.00 Nom.
Oil (see Oil, castor).
Pomace, bgs., c.l., works ton 24.00 Nom.
Castoreum, nat., cns lb 12.00 45.00
synthetic, cns lb 22.00 - —
Catechol, CP, cryst., fib. drms., works lb 2.00 - —
resublimed, drms., works lb 4.00 - —
Catnip, bls lb .55 - .60
Celery seed, French, bgs lb .24 - .25½
Indian, bgs lb .21 - .21½
futures, bgs lb .21 .21¼
Celluloid scrap (see Pyroxylin scrap).
Cellulose acetate, flake, etns., works, frt. alld. on 100 lbs. or more lb .36 - .40
granules, etns., same basis lb .42 —
molding composition, plain colors, translucent, metallic pearls, special black, drms., c.l., frt. alld lb .40 - —
l.c.l., same basis lb .45 - .51
regular black, drms., l.c.l., same basis lb .31 - .39
variegations, drms., l.c.l., same basis lb .50 - .59
molding and extrusion transparents, drms., c.l., same basis lb .47 - —
l.c.l., same basis lb .49 - .54
extrusion compounds, translucent, metallic pearls, special black, drms., c.l., same basis lb .42 - —
l.c.l., same basis lb .44 - .49
Butyrate, flake, 17% butyryl content, etns., 500 lbs. or over, works lb .52 - —
less than 500 lbs., works lb .53 - —
17.5% butyryl content, etns., 500 lbs. and over, works lb 49 —
less than 500 lbs., works, lb .50 - —
26.5% butyryl content, etns., 500 lbs. and over, works lb .53 - —
less than 500 lbs., works lb .54 - —

Cellulose butyrate, gran., 37% butyryl content, etns., 500 lbs. and over, works lb .53 - —
less than 500 lbs., works lb .54 - —
48% butyryl content, etns., 500 lbs. and over, works lb .57 - —
less than 500 lbs., works lb .58 - —
molding composition, plain colors, pearls, transparents, special black, drms., l.c.l., frt. alld lb .56 - .61
regular black drms., l.c.l., same basis lb .44 - .48
variegations, drms., l.c.l., same basis lb 61 66
Triacetate, flake, etns., works, frt alld, on 100 lbs. or more lb 40 —
Cerium hydrate, drms., works lb 1.25 —
Oxalate, NF, bbls., bgs., works lb 70 72
Oxide, optical grade, bgs., under 100 lbs., works lb 2.25 —
kgs., 100 lb lots, works lb 1.75 —
Chalk, precip., cosmetic, dentifrice, drms., bgs., c.l., works lb 02½ 05½
l.c.l., ex whse lb 04 —
paint, bgs., c.l., works ton 40.00 —
papermakers, bgs., c.l., works ton 32.50 40.00
rubber makers bgs., c.l., works ton 30.00 —
Chamomile flowers, Hungarian, cs. lb .45 - .50
Roman, bls lb 1.10 1.50
Charcoal, bone, NF, bbls lb .23 - —
hardwood, briquets, bulk, c.l., works ton 49.30 —
bgs., c.l., works ton 51.30 —
granular, bgs., incl. c.l., works ton 46.30 59.00

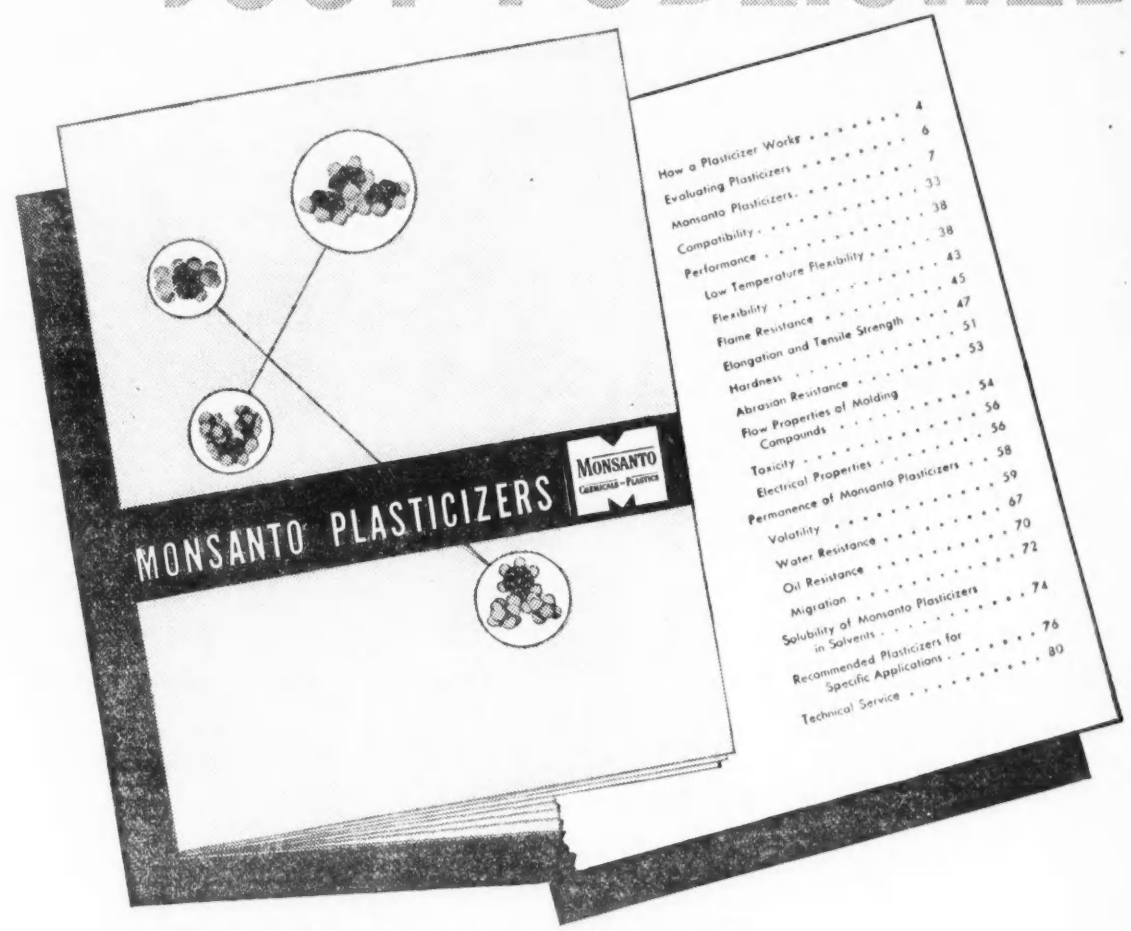
Charcoal, hardwood, lump, bulk, c.l., works ton 38.80 43.50
bgs., extra, returnable, c.l., works ton 41.30 45.50
Pinewood, gran., powd., ogs., c.l., works, South ton 40.00 —
l.c.l., works ton 50.00 60.00
lump, bgs., c.l., works, South ton 35.00 —
Willow, powd., bbls lb .06 .07
Chestnut extract, 25% tannin, bbls., c.l., works lb .0465 —
l.c.l., works lb .0495 —
tanks lb .0375 - .0390
powd. 65% tannin, bgs., extra, c.l., works lb .1105 —
l.c.l., works lb .1170 1180
China clay, dom., dry-grd., air-float, 99.75% 300 mesh, bgs., c.l. works ton 12.50 13.00
l.c.l., works ton 13.50 14.00
bulk, c.l., works ton 9.50 10.00
99% 200 mesh, bgs., c.l., works ton 10.00 12.00
l.c.l., works ton 11.00 16.00
wet-grd., silk-bolt, 99.5% 325 mesh, bulk, c.l., works ton 13.00 —
paper bgs., c.l., works, ton 15.00 —
imported, white, lump, bulk, c.l., ex dock Balto., Boston, Norfolk, Phila net ton 16.00 35.00
powd., bgs., c.l., ex dock ton 45.60 —
l.c.l. ex whse ton 50.00 55.00
Chloral, tech., drms., c.l., works lb .41 - —
l.c.l., works lb .42 - —
tanks, works lb .40 - —
Hydrate, USP, jars lb 1.05 - 1.15
Chloramine T, NF, bbls., works lb .75 - —
Chlordane, agricultural, drms., l.c.l. stock points lb 1.05 2.00
refined, drms., stock points lb 1.20 2.15

Calcium Sulphide—Chromium Yellow

Chlorinated paraffin, drms., works lb .12½ - .13½
Rubber, standard, etns., c.l., works lb .42 - —
l.c.l., works lb .43 —
Chlorine, liquid, cyls., c.l., works lb .07 .12
l.c.l., stock points lb .09 .19
tanks, single units, works, frt. equald 100 lbs. 2.40 - —
Chlorine, liquid, tanks, multiple units, 3 cars, works, frt. equald 100 lbs. 2.70 - —
2 cars, same basis 100 lbs. 3.30 - —
1 car, same basis 100 lbs. 3.90 - —
Chloroform, tech., drms lb .20 .23
USP, drms lb .30 .33
Chloro-4-2-Toluidine, obls. lb 1.33 - —
Chloropicrin, com'l, bots lb 1.35 - —
cyls., 180-lbs., frt. alld lb .85 - —
100-lbs., same basis lb .87 - —
25-lbs., same basis lb 1.12 - —
Cholesterol, USP, fib. drms., 100-lb lots lb 8.50 - —
5-lb. pkg. lb 9.00 - —
1-lb. pkg. lb 9.50 - —
Choline chloride, 6b. drms., works lb 3.00 - 3.10
feed grade fib. drms., works lb 2.20 —
Dihydrogen citrate, fib. drms., works, lb 3.00 3.10
Chromium acetate, powd., 72% Cr., bbls., works lb No stocks
solut., 7% bbls., cs lb .0955 —
8% bbls., cs lb No stocks
Fluoride, bbls., works lb .24 - .27
Green (see Green, chrome).
Oxide (see Green, chromium oxide).
Oleate, bbls lb .54 - —
Trioxide (see Acid, chromic).
Yellow (see Yellow, chrome).

JUST PUBLISHED

for industrial users of plasticizers



Industrial users of plasticizers will find a world of valuable information in "Monsanto Plasticizers," now available for distribution. It is a comprehensive 80-page treatise on plasticizing action, applications and performance results of Monsanto plasticizers.

If you want assistance in choosing — and using — the right plasticizer, send for a copy of this new book. Write on your company letterhead, or return the coupon. MONSANTO CHEMICAL COMPANY, Desk C, Organic Chemicals Division, 1770 South Second Street, St. Louis 4, Missouri.

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SERVING INDUSTRY . . . WHICH SERVES MANKIND

Chrysarobin—Diatomaceous Earth

Chrysarobin, USP, bots.	lb.	7.65	9.24
Cinchona bark, N.F., red, quill, 20-inch, cs.	lb.	1.26	Nom.
broken, bgs.	lb.	.45	.50
yellow, broken, bgs.	lb.	.35	.40
Cinchonidine, small cryst., cns., 100 ozs	oz.	95	—
Sulphate, cns., 100 oz.	oz.	.35	—
Cinchonine, large cryst., cns., 100 ozs	oz.	69	—
small cryst., cns., 100 ozs	oz.	65	—
Sulphate, N.F., cns., 100 ozs	oz.	42	—
Cinchophen, NF, heavy, dms., works	lb.	4.70	4.75
Cinchophen-sodium, standard, dms., works	lb.	4.50	4.85
Cinnamic alcohol (see Alcohol, cinnamic).			
Aldehyde, chys., cns., dms.	lb.	.83	.88
Cinnamon, Ceylon, No. 2, bls.	lb.	.21	.22
Citral, bots., cns.	lb.	3.75	5.00
Citronellal, bots., dms.	lb.	2.75	7.75
Citronellol, bots., dms.	lb.	3.20	4.75
Clove, Madagascar, bls.	lb.	.17½	.18
futures, bls.	lb.	.19	.19½
Zanzibar, bls.	lb.	.20½	.21
futures	lb.	.21½	Nom.
Clover tops, red, dom., bgs.	lb.	.60	.70
imported, bgs.	lb.	No stocks	
CMC, purified, high vis., ctns., 20,000 lbs. or over, works, frt. alld	lb.	.63	—
smaller lots, same basis	lb.	.65	.75
low and medium vis., ctns., 20,000 lbs. or over, works, frt. alld	lb.	.60	—
smaller lots, same basis	lb.	.62	.72
tech., low vis., dms., c.l., works	lb.	.30	—
l.c.l., dms., works	lb.	.32	—
Coaltar, coal-gas, water-gas, crude, resale, dms., c.l., works	gal.	.24½	—
l.c.l., works	gal.	.26	—
tanks, works	gal.	.14½	—
refd., bbls., c.l., works	gal.	.25½	—
l.c.l., works	gal.	.27	—
tanks, works	gal.	.15½	—
Cobalt acetate, bbls., dlvd.	lb.	.90	—
Carbonate, powd., bgs., works	lb.	1.53	—
feed grade, 49½% Co, kgs	lb.	1.53	—
Chloride, kgs., works	lb.	.37½	—
feed grade, 24.5% Co, kgs	lb.	1.25	—
Hydrate, bbls.	lb.	2.04	—
feed grade, 62% Co, kgs	lb.	2.04	—
Linoleate, paste, 6% Co, dms	lb.	.58	—
solid, 8½% Co, dms	lb.	.65	—
8% Co, dms	lb.	.61¼	—
Naphthenate, liq., 6% Co, dms., frt. alld	lb.	.37¼	.37¾
Nitrate, feed grade, 20.4% Co, bbls	lb.	.75½	—
Oxide, black, kgs	lb.	1.27½	1.30
Phosphate, feed grade, 34% Co, kgs	lb.	1.20½	—
Resinate, precip., 7.5% Co, dms	lb.	.58½	—
Sulphate, dms	lb.	.53	—
feed grade, 21% Co, kgs	lb.	1.00	—

Cobalt salts, feed grade, quotations are f.o.b. Phila., Cleve., or N. Y.

Cobalt-ammonium sulphate, 14% Co, kgs	lb.	.75	—
Cocaine, USP, cns., 100-oz.	oz.	15.00	—
Hydrochloride, cns., 100-oz. lots	oz.	11.75	—
Cocoanut, gray, bgs	lb.	.67	.68
silver, Teneriffe, bgs.	lb.	.69	.70
Cocillana bark, bgs	lb.	.20	.22
Cocoa butter, bgs	lb.	.41	.42
Codeine, NF, cns., 100 ozs	oz.	13.25	—
Hydrochloride, cns., 100 ozs	oz.	11.55	—
Phosphate, USP, cns., 100 ozs	oz.	10.25	—
Sulphate, USP, cns., 100 ozs	oz.	10.75	—
Codliver oil (see Oil, codliver).			
Cohosh, black, root, bls.	lb.	.24	.26
blue, root, bls	lb.	.18	.19
Colchicine, USP, bots., cns.	oz.	145.00	160.00
Colchicum seed, bgs	lb.	2.75	3.00
Colocynth, USP, dms	lb.	.24	.29
Flexible, USP, dms	lb.	.25½	.30½
Colocynth, pulp, bls	lb.	.35	.40
Colombo root, bls	lb.	.18	.19
Coltsfoot leaves, bgs.	lb.	.40	.45
Condurango bark, bgs.	lb.	.20	.21
Copaiba balsam, cns., dms	lb.	.65	.69
Copper acetate, cupric, bbls., works	lb.	.28	—
smaller containers, works	lb.	.29	.30
Carbonate, 55%, bbls.	lb.	.218	.2525
Chloride, anhyd., bbls	lb.	.29	—
crystals, bbls	lb.	.20	.20¾
Citrate, USP, 5-lb bots.	lb.	2.40	—
Cyanide, tech., bbls.	lb.	.48	—
Hydrate, dms., dlvd. E. Miss	lb.	.27½	.28
Metal, electrolytic	lb.	.23½	—
Naphthenate, liquid, 8% Cu, dms., frt. alld	lb.	.22¾	.23¼
Nitrate, tech., cryst., bbls., works	lb.	.25	.28
Oleate, liquid, 8.5% Cu, bbls	lb.	.33	—
solid, 10% Cu, bbls.	lb.	.43¾	—
12.5% Cu, bbls	lb.	.44½	—
Oxide, black, bbls., works	lb.	.30½	.32½
red, com'l, bbls., works	lb.	.30	.32¼
Oxychloride-sulphate, bgs., frt. alld	lb.	.24¼	.27¼
Resinate, precip., dms., frt. alld	lb.	.25	—
Stearate, bgs., works	lb.	.39½	—
Sulphate, cryst., 99%, bgs., c.l., works	100 lbs.	8.10	—
l.c.l.	100 lbs.	9.10	—
monohydrated, 35%, dms., c.l., dlvd	100 lbs.	13.50	—
tribasic, dealers, bgs., c.l., works	lb.	.22¾	—
l.c.l., works	lb.	.23¾	.24¼
USP, gran., cryst., dms.	lb.	.25	—
Copperas, cryst., gran., bgs., c.l., works	ton.	17.00	—
l.c.l., works	100 lbs.	1.55	2.00
bbls., c.l., works	ton.	20.00	—
bulk, c.l., works	ton.	14.00	—
Copra, c.i.f., Pacific ports	ton.	170.00	Nom.
Atlantic or Gulf ports	ton.	175.00	Nom.
Coriander seed, argentine, bgs., futures	lb.	.06	Nom.
Italian, bgs.	lb.	.05½	Nom.
Moroccan, bgs.	lb.	.05¾	.06
Corn sugar, tanners, chipped, paper bgs., c.l., 60,000 lbs. min.	100 lbs.	5.48	—
bbls., c.l., same basis	100 lbs.	5.53	—
Syrup, 42°, bbls., c.l.	100 lbs.	5.35	—
l.c.l.	100 lbs.	5.95	—
Cornsilk, bls	lb.	.15	.18
Corrosive sublimate, NF, cryst., dms., 50 lbs. or more	lb.	1.68	—
gran., powd., dms., 50 lbs. or more	lb.	1.53	—
Cottonroot bark, bls.	lb.	.33	.35
Cottonseed hull ash, 32-36% potash, bgs., dlvd., unit-ton		1.75	—
Meal, 41% protein, sacked, c.l., mills, S. E.	ton.	54.00	55.00
Coumarin, cns., 25 lbs.	lb.	3.00	3.10
smaller lots	lb.	3.05	3.15
Cramp bark, NF, bls.	lb.	.80	.85
Cranesbill root, bls	lb.	.30	.31
Cream of tartar, dom., USP, gran. or powd., bbls., 5,000 lbs. one ship	lb.	.29½	—
smaller lots	lb.	.30	.31
Imported, kgs.	lb.	.24	.26
Creosote, beachwood, bots., cbys.	lb.	1.15	1.20
Coaltar, crude, tanks, works	gal.	.16	.19½
refined, dms., c.l., works	gal.	.38½	—
l.c.l., same basis	gal.	.39	—
tanks, same basis	gal.	.25	—
solution, 80%, tanks, works	gal.	.20	—
Hardwood, NF, bots., cbys.	lb.	.85	—
Pinewood, dms.	gal.	.31	.33
Creosote carbonate, NF, bots., cbys.	lb.	2.35	2.40
Cresol, tech., dms., c.l., works, frt. equald	lb.	.19	.19¼
l.c.l., same basis	lb.	.19½	.19¾
tanks, same basis	lb.	.18¾	.18½
USP, dms., c.l., same basis	lb.	.18¾	.19¼
l.c.l., same basis	lb.	.19¼	.19¾
tanks, same basis	lb.	.18	.18½
Crotonaldehyde, 91-93%, dms., c.l., works	lb.	.16½	.20
l.c.l., works	lb.	.17	.20
Cryolite, nat., dealers, bgs., c.l., works, 100 lbs.		10.00	—
bbls., l.c.l., works, 100 lbs.		10.75	11.00
Cube root, powd., 5% rotenone, bgs., ton lots, works	lb.	.30	—
extract liquid 1% rotenone, dms., works	gal.	1.50	—
Cubeb berries, XX NF bgs.	lb.	.50	.55
powd., cs.	lb.	.60	.65
Culvers root, bbls.	lb.	.60	.70
Cumene, dms., c.l.	lb.	.08	—
l.c.l.	lb.	.09	—
tanks	gal.	.53	.56
Cumin, seed, Moroccan, bgs.	lb.	No stocks.	
Persian, bgs.	lb.	.22¼	.22½
Cutch, extract, 55% tannin, bgs., ex dock	lb.	.08½	—
Cyanamide, fertilizer mixing grades, 20.6% N, gran., bulk, Niagara Falls, Ont., contracts, bulk	unit-ton.	2.85	—
pulv., 21% N., bgs., same basis	unit-ton.	2.75	—
Cyclohexane, tech., dms., c.l., works	lb.	.09½	.12½
l.c.l., works	lb.	.10	.13
tanks, works	lb.	.08	.11½
Cyclohexanol, tech., dms., c.l., works	lb.	.21½	—
l.c.l., works	lb.	.22	—
tanks, works	lb.	.20	—
Cyclohexanone, tech., dms., c.l., works	lb.	.26½	.30
l.c.l., works	lb.	.27	.31
tanks, works	lb.	.25	.29
Cyclohexylamine, dms., works	lb.	.34	—
Cyclopropane, USP, 2 lb. cyls, works	cyl.	40.00	—
6 oz. cyls., works	cyl.	10.50	—
Hospitals, cyls., 40 gal. lots	gal.	.32	—
100-gal. lots	gal.	.31	—
200-gal. lots	gal.	.30	—

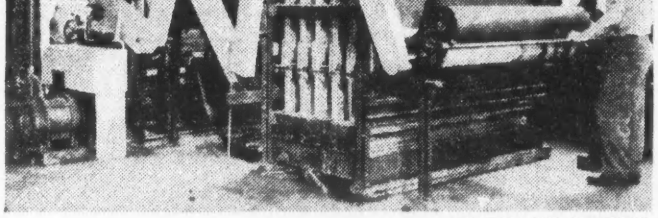
D

2, 4-D, fib., dms., c.l., works, frt., equald	lb.	.75	—
l.c.l., same basis	lb.	.83	.90
Damiana leaves, bls.	lb.	.45	.50
Dandelion root, bls.	lb.	.44	.50
DDD, tech., fine grd., fib. dms., c.l., works	lb.	.51	—
l.c.l., works	lb.	.51½	—
lump, fib. dms., c.l., works	lb.	.49	—
l.c.l., works	lb.	.49½	—
DDT, fiber dms., c.l., works	lb.	.32	—
smaller lots, works	lb.	.33	.34
Decanol, normal, tech., dms., dlvd	lb.	.35	—
Deertongue leaves, bls.	lb.	.38	.45
Defluorinated phosphate, 65% b.p.l., paper bgs., works	ton.	44.15	55.75
Rock, paper bgs., works	ton.	34.25	—
Degras, common, bbls.	lb.	.11	.12
Neutral, less 2% ffa., bbls.	lb.	.18	.19
over 2% ffa., bbls.	lb.	.17	.18
Derris root, 5% rotenone, powd.	lb.	.40	—
Dextrin, corn, British gum, paper bgs., c.l., 100 lbs.		6.97	—
Chicago	100 lbs.	6.35	—
l.c.l.	100 lbs.	7.12	—
Canary, paper bgs., c.l.	100 lbs.	6.71	—
Chicago	100 lbs.	6.09	—
l.c.l.	100 lbs.	6.86	—
dark, paper bgs., c.l.	100 lbs.	6.91	—
Chicago	100 lbs.	6.19	—
l.c.l.	100 lbs.	6.96	—
white paper bgs., c.l.	100 lbs.	6.56	—
Chicago	100 lbs.	5.94	—
l.c.l.	100 lbs.	6.71	—
Corn dextrin in cotton bgs., 17c. higher.			
Potato, bgs.	lb.	.10½	.10¾
Dextrose, USP, dms.	lb.	.17¾	—
Diacetone (see Alcohol, diacetone).			
Diacetyl, flavor grade, bots.	lb.	5.05	5.55
laboratory grade, bots.	100 grams.	4.50	—
tech., bots., works	lb.	3.00	—
Diamyl ether (see Ether, amyl).			
Phthalate, dms., tanks	lb.	No prices.	
Diamylphenols, mixed, dms., c.l., works	lb.	.31	—
l.c.l., works	lb.	.32	—
tanks, works	lb.	.30	—
Dianisidin, dms.	lb.	1.65	—
Diatomaceous earth, dom., bgs., c.l., Atlantic coast	ton.	50.00	52.00
California	ton.	38.00	40.00
l.c.l., ex whse.	ton.	80.00	—

Life ...on the

CYANAMID'S new SUPERSET* Resin Finish—the first wrinkle-resistant finish which can be applied successfully to cotton and rayon with little or no loss in tensile strength, is here being tested. Picture at far left shows young man's jacket being twisted severely to induce as many wrinkles as possible. Second picture shows the same jacket after it has been shaken out and the young man has put it on—practically wrinkle-free and perfectly wearable.

Fabrics treated with SUPERSET Resin Finish will withstand repeated laundering and dry cleaning without loss of their wrinkle-resistant properties. This premium textile finish is just one of many which Cyanamid has developed to improve the quality of textiles.



H. DAROFF & SONS, PHILADELPHIA

GREATER FABRIC SOFTNESS and improved pre-shrinkage of woolens are now obtainable at low cost when clothing manufacturers use demineralized water in processing their fabrics. Because the treated water is essentially free of dissolved minerals, it penetrates the fabric more thoroughly during wetting out, thus improving pre-shrinkage and, as it leaves no deposit on the fabric, the wool is much softer. Cyanamid's FILT-R-SYL* Demineralizers are most efficient and economical producers of mineral-free water for this and many other industrial purposes. Unlike stills, they require no heat, involve no scale problem, and are turned on and off like a faucet.

REDSOL* CRYSTALS (potassium sodium ferricyanide) are finding increasingly wide use in the photographic industry as a toner, reducer and mild oxidizing agent. This is but one of a group which makes Cyanamid headquarters for Prussiates. Included are REDSOL B Solution (sodium ferricyanide), the most economical of all the commercial ferricyanides and useful as a mild oxidizing agent; Yellow Prussiate of Soda, and Yellow and Red Prussiate of Potash.

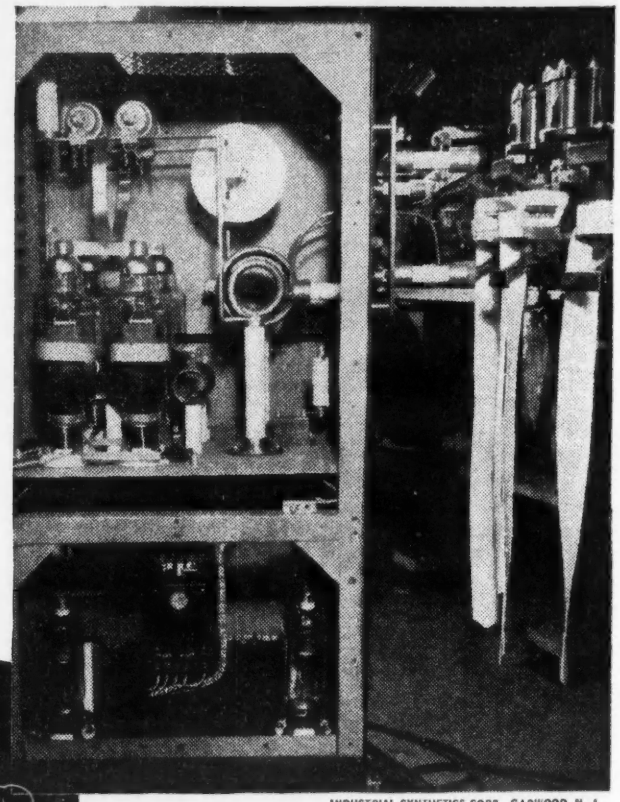
Diatomaceous earth, dom., purified.
bgs., c.l., Atl. coast..ton.62.00 - —
California .....ton.50.00 - —
l.c.l., ex whse.....to.90.00 - —
Imported, Algerian, bgs., c.l., Atlantic coast..ton. No prices.
Mexican, white, bgs., c.l., Atlantic coast..lb. .03 - —
l.c.l., Atlantic coast...lb. .06 - —
Dibenzyl sebacate, dms., c.l., works. lb. .70¼- —
l.c.l., works .....lb. .70¾- —
tanks, works .....lb. .68¾- —
Dibutoxyethyl sebacate, dms., c.l., works..lb. .58¼- —
l.c.l., works.....lb. .58¾- —
tanks, works .....lb. .56¾- —
Dibutyl phthalate, dms., c.l., dlvd lb. .32 - —
l.c.l., dlvd. .....lb. .33 - —
tanks, dlvd. .....lb. .30½- —
Sebacate, dms., c.l., works.....lb. .55½- —
l.c.l., works .....lb. .56 - —
tanks, works .....lb. .54 - —
Tartrate, dms., works, frt. alld lb. .92 - 1.02
Dibutylamine, dms., c.l., frt. allddlb. .52½- —
l.c.l., frt. allddlb. .53½- —
tanks, frt. allddlb. .50 - —
Dicapryl sebacate, dms., c.l., works. lb. .58½- —
l.c.l., works.....lb. .59 - —
tanks, works.....lb. .57 - —
Dichloroanilin, dms., works.....lb. .75 - .80
Dichlorodiphenyldichloroethane (see DDD).
Dichlorodiphenyltrichloroethane (see DDT).
Dichloroethyl ether (see Ether, dichloroethyl).
Dichlorophenol, dms., frt. equald lb. .23 - —
Dicumarol, fib. dms., works.....lb.24.00 -25.00
Dicyclohexylamine, dms., works..lb. .33 —
Dicyclohexylphthalate, fib. dms., c.l., works..lb. .42½- —
l.c.l., same basis.....lb. .43 - —
Diethanolamine, dms., c.l., E.....lb. .26½- —
l.c.l., same basis.....lb. .27½- —
tanks, same basis.....lb. .25 - —
Diethyl carbonate, dms., c.l.....lb. .36½- —
l.c.l., same basis.....lb. .37½- —
tanks, same basis.....lb. .35 - —
Maleate, dms., c.l., dlvd .....lb. .50½- —
l.c.l., dlvd .....lb. .51½- —
tanks, dlvd .....lb. .50 - —
Oxalate, dms., c.l., frt. allddlb. .34½- .35½
l.c.l. .....lb. .35½- .36½
tanks .....lb. .34 - —
Phthalate, dms., c.l., dlvd.....lb. .27½- —
l.c.l., dlvd.....lb. .28 - —
tanks, dlvd.....lb. .26 - —
Sulphate, dms., c.l., works .....lb. .14 - —
l.c.l., works.....lb. .15 - —
tanks, works.....lb. .13 - —
Diethylamine, dms., c.l., works...lb. .69 - —
l.c.l., works.....lb. .71 - —
tanks, works.....lb. .65 - —
Diethylaminoethanol, dms., l.c.l., works, frt. allddlb. E. of Miss lb. 75 - —
Diethylanilin, dms .....lb. .48 - .57
Diethyleneglycol, dms., c.l., frt allddlb. E lb. .17½- —
l.c.l., same basis.....lb. .18½- —
tanks, same basis.....lb. .16 - —
Diethylether, dms., l.c.l., works.lb. .40 - —
Monobutylether, dms., c.l., works. lb. .26 - —
l.c.l., works.....lb. .26½- —
tanks, works .....lb. .24½- —
Monobutylether acetate, dms., c.l., works..lb. .27½- —
l.c.l., works.....lb. .28 - —
Diethyleneglycol monoethylether, dms., c.l., works..lb. .18 - —
l.c.l., works.....lb. .18½- —
tanks, works.....lb. .16½- —
Monoethylether acetate, dms., c.l., works..lb. .24 - —
l.c.l., works.....lb. .24½- —
Monomethylether, dms., c.l., works lb. .22 - —
l.c.l. .....lb. .22½- —
tanks .....lb. .20½- —
Diethylenetriamine, dms., c.l., works. lb. .51½- —
l.c.l., works .....lb. .52 - —
tanks, works .....lb. .50 - —
Diethylstilbestrol, USP, bots....kilo.255.00 -330.00
Digitalin, cryst., oots .....gram.15.00 -18.00
powd., bots.....oz.25.00 -30.00
Digitalis leaves, dms. .....lb. .85 - 1.25
Diglycol laurate, dms .....lb. .33 - —
Oleate, light, bbls., c.l.....lb. .33 - —
Stearate, bbls., c.l.....lb. .40 - —
Dihexyl sebacate, dms., c.l., works. lb. .45¾- —
l.c.l., works .....lb. .46¾- —
tanks, works .....lb. .44¾- —
Dihydrostreptomycin hydrochloride and sulphate, hospitals, vials. gram. .80 - —
wholesalers, vials.....gram. .64 - —
Dihydroxydichlorodiphenylmethane, dms..lb. .93 - 1.00
smaller containers .....lb. 1.05 - 1.40
Di-isobutyl ketone, dms., c.l., works. lb. .14 - —
l.c.l., works .....lb. .14½- —
tanks .....lb. .12½- —
Di-isobutylene, dms., c.l., works..lb. .07 - —
l.c.l., works .....lb. .07½- —
tanks, works .....lb. .05½- —
Di-isooctyl phthalate, dms., c.l., dlvd. lb. .43 - .44½
l.c.l., same basis.....lb. .43½- .45½
tanks, same basis.....lb. .41½- .43
Dillseed, natural, bgs.....lb. .10¼- .10½
dewhiskered, bgs.....lb. .10 - .10½
Dimethyl phthalate, dms., c.l., dlvd. lb. .26½- —
l.c.l., dlvd .....lb. .27 - —
tanks, dlvd .....lb. .25 - —
Sebacate, dms., c.l., works.....lb. .72½- —
l.c.l., works .....lb. .73 - —
tanks, works .....lb. .71 - —
Sulphate, 55-gal. ret., dms., c.l., works..lb. .15 - —
l.c.l., works .....lb. .16 - —
10-gal. ret. dms., works .....lb. .16½ —
Dimethylamine, 25%-40%, dms., c.l., works, basis 100%..lb. .37 - —
l.c.l., works, basis 100%...lb. .38 - —
tanks, works, basis 100% .....lb. .33 - —
Dimethylanilin, dms., c.l .....lb. .21 - .25½
l.c.l. .....lb. .25 - .26¼
Dinitroanilin, dms., frt. equald...lb. .50 - —
Dinitrobenzene, bbls .....lb. .16 - .21
Dinitrochlorobenzene, dms .....lb. .14 - .18
Dinitrophenol, bbls.....lb. .28 - .32
Dinitrotoluene, oily, dms .....lb. .07 - .09
refd., dms .....lb. .17 - .21
Dinonylnaphthalene, c.l., dms., works lb. .13 - —
l.c.l., dms., works .....lb. .14 - —
tanks .....lb. .12 - —
Dioctyl phthalate, dms., c.l., frt. allddlb. .44½- —
l.c.l., frt. allddlb. .45½- —
tanks, frt. allddlb. .42 - —
Diorthotolylguanidin, dms., ton lots, dlvd..lb. .48 - —
smaller lots, dlvd .....lb. .50 - —
Dioxan, dms., c.l., frt. allddlb. .25 - —
l.c.l., same basis .....lb. .25½- —
tanks, same basis .....lb. .23½- —
Dip oil (see Tar acid oil).
Dipentaerythritol, bgs., l.c.l., works lb. .37 - —
Dipentene, dest.-dist., dms. incl., c.l., works, South..gal. .55 - .53
l.c.l., same basis ....gal. .56 - .55
N. Y. whse .....gal. .50 - —
steam-dist., dms., c.l., whse., NYC. gal. .59 - —
l.c.l., same basis ....gal. .63 - .62
Diphenyl, bbls., c.l., works.....lb. .15 - —
l.c.l., works .....lb. .16 - .20
Oxide, perfume grade, cns., dms. lb. .43 - .48
Diphenylamine, bbls. .....lb. .26 - —
Diphenylguanidin, dms., ton lots lb. .39 - —
smaller lots.....lb. .40 - —
Dipropylene - glycol methylether, dms., c.l., frt. equald lb. .18 - —
l.c.l., same basis ....lb. .18½- —
tanks, same basis ....lb. .16½- —
Ditertiarybutylmetacresol, dms., c.l., works..lb. .32 - —
l.c.l., works.....lb. .33 - —
tanks, works.....lb. .31 - —
Ditertiarybutylparacresol, dms., c.l., works lb. .94 - —
l.c.l., works.....lb. .95 - —
Divi-divi, 45% tannin, bgs., bls., c.l., U. S. ports, ex dock..ton.64.00 -66.00
Divinylbenzene, 18%, dms., c.l., works..lb. .25 - —
l.c.l., works.....lb. .26 - —
tanks, works .....lb. .24 - —
40%, dms., c.l., works.....lb. .55 - —
l.c.l., works .....lb. .60 - .65
Dodecyltoluene, c.l., dms., works..lb. .14 - —
l.c.l., dms., works .....lb. .15 - —
tanks, works .....lb. .13 - —
Doggrass root, dom., cut, bls.....lb. .20 - .22
imp., NF, cut, bls .....lb. .35 - .40
Dogwood, Jamaica, bark, bls.....lb. .12 - .14
Dragon's blood, drops, cs .....lb. .45 - .47
mass, cs.....lb. 1.50 - 1.55
reeds, cs. .....lb. 2.50 - 2.75
Dyes, coaltar, certified colors for food, drugs and cosmetics, 5-lb. and 1-lb. lots:—
Blue, FD&C, No. 1, cns. .....lb.17.00 -17.60
No. 2, cns. .....lb.17.00 -17.60
Green, FD&C, No. 1, cns. ....lb.17.00 -17.60
No. 2, cns. .....lb.22.20 -22.85
No. 3, cns. .....lb.35.25 -35.90
Orange, FD&C, No. 1, cns. ...lb. 3.65 - 3.75
No. 2, cns. .....lb. 4.65 - 4.75
Red, FD&C, No. 1, cns. .....lb. 7.55 - 7.85
No. 2, cns. .....lb. 4.00 - 4.10
No. 3, cns. .....lb.22.20 -22.85
No. 4, cns. .....lb. 7.20 - 7.50
No. 32, cns. .....lb. 5.20 - 5.40
Yellow, FD&C, No. 1, cns. ....lb.10.50 -11.05
No. 3, cns. .....lb. 3.30 - 3.40
No. 4, cns. .....lb. 3.30 - 3.40
No. 5, cns. .....lb. 4.00 - 4.10
No. 6, cns. .....lb. 4.00 - 4.10
Dyes, coaltar, certified colors for drugs and cosmetics, 1-lb. lots:—
Black, D&C, No. 1, cns. .....lb.10.95 - —
Blue, D&C, No. 4, cns. .....lb.13.55 - —
Brown, D&C, No. 1, cns. .....lb.16.10 - —
Green, D&C, No. 5, cns. .....lb.16.10 - —
No. 6, cns. .....lb.16.10 - —
No. 7, cns. .....lb.14.30 - —
Orange, D&C, No. 3, cns. .....lb.10.95 - —
No. 4, cns. .....lb.20.05 - —
No. 5, cns. .....lb. 5.70 - —
No. 10, cns. .....lb.20.70 - —
Red, D&C, No. 8, cns. .....lb. 3.75 - —
No. 9, cns. .....lb. 3.75 - —
No. 10, cns. .....lb. 3.00 - —
No. 11, cns. .....lb. 2.25 - —
No. 12, cns. .....lb. 3.00 - —
No. 17, cns. .....lb.10.95 - —
No. 18, cns. .....lb.24.00 - —
No. 21, cns. .....lb. 4.70 - —
No. 22, cns. .....lb.10.95 - —
No. 28, cns. .....lb.24.65 - —
No. 33, cns. .....lb.17.45 - —
Violet, D&C, No. 1, cns. .....lb.16.10 - —
No. 2, cns. .....lb.16.10 - —
Yellow, D&C, No. 7, cns. .....lb.10.95 - —
No. 8, cns. .....lb.10.95 - —
No. 10, cns. .....lb.13.50 - —
No. 11, cns. .....lb.13.50 - —
No. 22, cns. .....lb. 9.15 - —
No. 33, cns. .....lb.14.65 - —
No. 37, cns. .....lb.13.55 - —
Dyes, coaltar, certified colors for external use in drugs and cosmetics, 1-lb. lots:—
Green, Ext. D&C, No. 1, cns. ..lb.16.10 - —
Red, Ext. D&C, No. 1, cns. ...lb.13.50 - —
No. 3, cns. .....lb.23.55 - —
Yellow, Ext. D&C, No. 1, cns. ..lb.10.95 - —
Dyes, coaltar, for general use in cloth dyeing (numbers are those of the Colour Index scale or prototype).
20 Chrysodine G. .....lb. .59 - —
27 Orange G. .....lb. .71 - —
31 Amido naphthol red G. ..lb. .59 - —
36 Alizarine yellow 2G.....lb. .82 - —
40 Alizarine yellow R .....lb. .97 - —
57 Amido naphthol red 6B...lb. .97 - —
79 Ponceau R.....lb. .68 - —
151 Orange II.....lb. .44 - —
165 Red lake C.....lb. 1.35 - —
176 Red lake A.....lb. .80 - —
179 Azo rubine .....lb. .95 - —
180 Diamond blue 3B.....lb. .84 - —
185 Cochineal red A.....lb. .85 - —

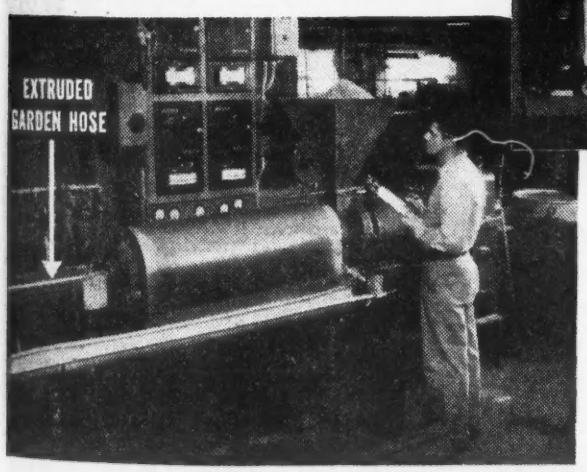
Chemical Newsfront

NOW AVAILABLE in commercial quantities are Cyanamid's AERO** DOP (Di-2-Ethyl Hexyl Phthalate) and AERO DOPI (Di Iso Octyl Phthalate) for plasticizing vinyl resins. These high quality plasticizers combine many desirable properties: low heat loss, low brittle point and good compatability. They remain liquid down to temperatures in the neighborhood of minus 50° C, assuring flexibility of the vinyl over an extreme temperature range.

Two typical uses of AERO DOP and AERO DOPI are shown here: a plasticizer for extruded tubing and for ladies' vinyl resin belts (being electronically sealed in photo)*. These plasticizers are also ideal for use in vinyl resins for raincoats, handbags, shoe products, upholstery, drapery materials, shower curtains; coated fabrics, beach mattresses and adhesives. Films thus plasticized retain their flexibility through years of service. Furthermore, the outstanding electrical properties of these plasticizers make them ideal for use on vinyl resins for wire-coating.

AERO DOP and AERO DOPI give vinyl resin-coated products the extra toughness, smoothness, dryness and bright coloring which are strong sales features. From the processing standpoint, AERO DOP and AERO DOPI improve the working qualities of vinyl resins; making them more adaptable to modern, low-cost production techniques. *Reg. U. S. Pat. Off. **Trademark





INDUSTRIAL SYNTHETICS CORP., GARWOOD, N. J.

WRITE FOR LITERATURE. If you would like further information on products mentioned, check off below and mail.
- ☐ SUPERSET Resin Finish
- ☐ FILT-R-STIL Water Demineralizers
- ☐ REDSOL Crystals, Red Prussiate of Potash, REDSOL B Solution
- ☐ AERO DOP and AERO DOPI

Name.....
Company.....
Address.....
.....
O P D 3-28-49

AMERICAN Cyanamid COMPANY
30 ROCKEFELLER PLAZA · NEW YORK 20, N. Y.

Dyes, Coaltar, General Use—Ethyleneglycol Monoethylether Acetate

Dyes, coaltar, for general use in cloth dyeing (numbers are those of the Colour Index scale or prototype).

202	Chrome blue black R	lb.	.62	—
203	Chrome black T	lb.	.72	—
208	Sulphon acid blue R	lb.	.83	—
216	Acid alizarin red B	lb.	.77	—
234	Resorcin brown	lb.	.82	—
246	Naphthol blue black	lb.	.78	—
278	Benzo fast red SBL	lb	2.96	—
289	Sulphon cyanine 5R extra	lb.	1.00	—
299	Diamond black F	lb.	1.59	—
304	Nerol 2B	lb.	1.83	—
326	Benzo fast orange S	lb.	1.57	—
332	Bismarck brown R	lb.	.78	—
365	Chrysophenine	lb.	2.14	—
382	Diamine scarlet B	lb.	1.56	—
401	Diamine black BH	lb.	.58	—
406	Benzo blue 2B conc	lb.	.98	—
419	Diamine fast red F	lb.	1.05	—
420	Diamine brown M	lb.	.82	—
448	Benzo purpurine 4B	lb.	1.08	—
518	Diamine sky blue FF	lb.	1.48	—
561	Trisulphon brown B	lb.	1.78	—
581	Direct deep black EW extra,	lb.	.81	—
593	Diamine green B	lb.	.60	—
598	Congo brown G	lb.	1.20	—
620	Sun yellow	lb.	.84	—
639	Xylene light yellow	lb.	1.77	—
640	Tartrazine	lb.	1.34	—
655	Auramine	lb.	1.69	—
657	Malachite green	lb.	1.93	—
662	Brilliant green	lb.	2.55	—
667	Brilliant milling green B	lb.	3.27	—
671	Glaucine	lb.	1.54	—
680	Methyl violet B	lb.	.95	—
681	Crystal violet	lb.	1.91	—
693	Formyl violet S4B	lb.	1.51	—
720	Chrome azurol B	lb.	3.60	—
729	Victoria blue B	lb.	2.68	—
737	Wool green S	lb.	2.14	—

Dyes, coaltar, for general use in cloth dyeing (numbers are those of the Colour Index scale or prototype).

749	Rhodamine B	lb.	3.85	—
814	Chloramine yellow	lb.	2.76	—
841	Safranine	lb.	2.58	—
865	Nigrosine WSJ 78	lb.	.56	—
922	Methylene blue GXX	lb.	1.28	—
969	Hydron blue R	lb.	.72	—
978	Sulphur black T extra	lb.	.28½	—
1027	Alizarin VI	lb.	.64	—
1034	Alizarin red S	lb.	2.30	—
1054	Alizarin saphiro B	lb.	2.59	—
1078	Alizarin cyanine green	lb.	2.61	—
1085	Alizarin blue black B	lb.	2.13	—
1096	Indanthrene golden orange G, single paste	lb.	1.96	—
	double paste	lb.	3.92	—
1099	Indanthrene dark blue BO, single paste	lb.	1.72	—
1101	Caledon jade green	lb.	2.32	—
1106	Indanthrene blue RS, single double paste	lb.	2.52	—
	double paste	lb.	2.13	—
1113	Indanthrene blue GCD, double paste	lb.	1.72	—
1150	Indanthrene olive R, single paste	lb.	1.08	—
1151	Indanthrene brown R, single paste	lb.	1.65	—
	double paste	lb.	3.29	—
1212	Indanthrene red violet RH, single paste	lb.	1.54	—
1217	Helindon orange R, single paste	lb.	1.57	—
p-4	Acid anthracine brown PG	lb.	2.48	—
p-14	Anthracene chromate brown EB	lb.	1.25	—
p-24	Benzo fast black L	lb.	1.94	—

Dyes, coaltar, for general use in cloth dyeing (numbers are those of the Colour Index scale or prototype).

p-80	Diazo brilliant scarlet ROA	lb.	2.55	—
p-202	Zambesi black V	lb.	1.07	—
p-244	Celliton scarlet B	lb.	1.37	—
p-313	Naphthol AS-SW	lb.	2.74	—

Dyes, coaltar, for stains, oil-soluble, 100-lb dms., sellers' works at warehouse.

	Black, blue, No. 550	lb.	.72	—
	Jet, No. 551	lb.	.79	—
	Brown, R, conc	lb.	1.44	—
	Orange R, brilliant	lb.	.80	—
	Red 4 B, conc	lb.	1.22	—
	Yellow, C	lb.	1.05	—
	FN, conc	lb.	1.08	—

Dyes, coaltar, for stains, spirit-soluble, 100-lb. dms., sellers' works.

	Auramine, O	lb.	1.66	—
	Black, basic, blue	lb.	1.08	—
	Jet	lb.	1.08	—
	Blue, methylene, 2 B, conc	lb.	1.44	—
	Brown, Bismarck, R, conc	lb.	.78	—
	Chrysodine, R, extra	lb.	.54	—
	Y, extra	lb.	.58	—
	Fuchsine, conc	lb.	2.34	—
	Green, malachite, conc	lb.	1.80	—
	Rhodamine, B	lb.	3.97	—
	Safranine, Y, conc	lb.	2.66	—
	Violet, methyl, 8	lb.	1.08	—

Dyes, coaltar, for stains, water-soluble, 100-lb. dms., sellers' works.

	Black, acid blue, B, extra	lb.	.76	—
	Orange, acid, Y, conc	lb.	.43	—
	Rhodamine, azo- R, extra conc.			
	Rhodamine, R, extra, conc	lb.	3.97	—
	Scarlet, croceine, MOO	lb.	1.33	—

Dyes, coaltar, for stains, water-soluble, 100-lb. dms., sellers' works.

	Yellow, azo-, conc	lb.	.32	—
	Fast light, 3 G, extra	lb.	1.99	—
	Methanil, conc	lb.	.83	—

Oil-soluble, spirit-soluble, water-soluble dyes in kegs, 3c. higher; tins, 10c. higher.

E

Echinacea root, bls	lb.	48	.55
Egg albumen (see Albumen).			
Yolk, dried, dom., bbls	lb.	.99	1.02
tanners, bbls	lb.	.06½	.07
Elder flowers, bright, bls	lb	.45	.50
Elecampane root, bls	lb.	.27	.28
Elm bark, grinding, bls	lb.	.35	.36
powd., bbls., bxs.	lb.	.46	.47
select, bxes	lb.	.60	.65
Emetine hydrochloride, USP, bots	oz.	42.50	48.00
Ephedra herb, bls	lb	.20	.21
Ephedrine, synthetic, USP, anhydrous, bots., 100 ozs	oz.	.98	—
hydrous, bots., 100 ozs	oz.	.92	—
Hydrochloride, tin, 100 ozs	oz.	.75	—
Sulphate, cryst., tins, 100 ozs.	oz.	.72	—
powd., tins, 100 ozs	oz.	.73	—
Epichlorohydrin, dms., c.l., works	lb.	.36½	—
l.c.l., works	lb.	.37	—
tanks, works	lb.	.35	—
Epinephrine, synth., USP, bots gram		.60	.70
Epsom salt, tech., bgs., c.l., works.	100 lbs.	2.15	—
l.c.l., works	100 lbs.	2.90	3.15
USP, cryst., bgs., c.l., works	100 lbs.	2.35	—
l.c.l., 5,000 lbs., 1 withdrawal	100 lbs.	3.10	—
smaller lots	100 lbs.	3.35	—
Ergot, NF, ens	lb.	1.35	1.40
Eserine, bots	oz.	55.00	56.00
Sulphate, bots	oz.	60.00	61.00
Ether, acetate (see Ethyl acetate).			
Amyl, dms., c.l., works	lb.	.095	—
l.c.l., works	lb.	.102	—
tanks, works	lb.	.085	—
Butyl, dms., c.l., dlvd	lb.	.30½	—
l.c.l., dlvd	lb.	.31	—
tanks	lb.	.29	—
Butyric (see Ethyl butyrate).			
Dichloroethyl, purif., dms., works.	lb.,	16½	—
l.c.l., same basis	lb.	.17	—
tanks, same basis	lb.	.15	—
Divinyl, USP, anesthesia, bots., 50 cc, hospitals	bot.	1.00	—
75 cc, hospitals	bot.	1.56	—
Ethyl, absolute, ACS, dms	lb.	.50	—
Anesthesia, USP, hospital, ens	lb.	.70	1.05
Industrial, USP, dms., c.l., dlvd	lb.	.12	—
l.c.l., same basis	lb.	.13	—
tanks, same basis	lb.	.10	—
synthetic, dms. incl., frt. alld	lb.	.11½	—
l.c.l., same basis	lb.	.12½	—
tanks, same basis	lb.	.10	—
Isopropyl, dms., c.l., dlvd	lb.	.06	—
l.c.l., dlvd	lb.	.06½	—
tanks, dlvd	lb.	.04½	—
Nitrous, conc., bots., 100 lbs	lb.	1.03	1.10
Ethyl acetate, natural, fermentation, 85-88%, dms., c.l., frt. alld.	lb.	.11½	—
l.c.l., frt. alld	lb.	.12½	—
tanks, frt. alld	lb.	.10	—
95-98%, dms., c.l., frt. alld.	lb.	.11¾	—
l.c.l., frt. alld	lb.	.12¾	—
tanks, frt. alld	lb.	.10¾	—
99%, dms., c.l., frt. alld.	lb.	.12	—
l.c.l., frt. alld	lb.	.13	—
tanks, frt. alld	lb.	.10½	—
synthetic, 85-90%, dms., c.l., frt. alld	lb.	.11½	—
l.c.l., frt. alld	lb.	.12½	—
tanks, frt. alld	lb.	.10	—
95-98%, dms., c.l., frt. alld	lb.	.11¾	—
l.c.l., frt. alld	lb.	.12¾	—
tanks, frt. alld	lb.	.10¾	—
99%, dms., c.l., frt. alld	lb.	.12¾	—
l.c.l., frt. alld	lb.	.13¾	—
tanks, dlvd	lb.	.10¾	—
Acetoacetate, dms., c.l., works	lb.	.47½	—
l.c.l., works	lb.	.48	—
tanks, works	lb.	.46	—
Ethyl acetoacetate prices on dms., c.l., dlvd. ¼c. higher, l.c.l., ¾c. higher.			
Benzoate, dms	lb.	.68	—
Betaethoxypropionate, dms., works	lb.	.70	—
Bromide, tech., 98%, dms	lb.	.36	.40
Butyrate, bgs	g.l.	4.75	—
cns., works	lb.	.65	.70
dms., works	lb.	.60	—
Carbamate (see Urethane).			
Chloride, tech., tanks	lb.	.13½	—
USP, bbls., cyl	lb.	.20	.22
Cinnamate, cns	lb.	2.30	3.60
Formate, dms	lb.	.38	—
Iodide, bots	lb.	4.08	4.27
Lactate, dms., works	lb.	.41	—
Methycrylate, M-2, dms., works	lb.	.60	—
cns., works	lb.	.63	.67
P-2, cns., works	lb.	.65	—
Myristate, dms., works	lb.	No prices.	
Nitrite (see Ether, nitrous).			
Oenanthate, dms	lb.	1.40	2.00
Oleate, dms., l.c.l., works	lb.	.53	—
Oxalate (see Diethyl oxalate).			
Silicate, dist. (see Tetraethyl orthosilicate) 40% available SiO_2, dms., works.	lb.	.55	—
Ethylalphanaphthylamine, bbls	lb.	.80	—
Ethylanilin, dms	lb.	.60	—
Ethylbenzene, dms., c.l	lb.	.14	—
l.c.l.	lb.	.15	—
tanks	lb.	.13	—
Ethylcellulose, 5lb. dms., 5,000 lbs., works	lb.	.52	—
smaller lots, works	lb.	.54	.62
Ethylene dichloride, dms., c.l., works, frt. alld. E. of Rockies	lb.	.09	—
W. of Rockies	lb.	.09½	—
l.c.l., works, frt. alld., E. of Rockies	lb.	.11½	—
W. of Rockies	lb.	.12	—
smaller containers	lb.	.12½	—
tanks, frt. alld. E. Rockies	lb.	.08	—
W. of Rockies	lb.	.08½	—
Oxide, cyls., c.l., works	lb.	.23¾	.25
l.c.l., works	lb.	.24¾	.26
tanks, works and frt. equald. or alld	lb.	.15¾	.16¾
Trichloride (see Trichloroethane).			
Ethylenediamine, tanks, works	lb.	.50	—
Ethyleneglycol, dms., c.l., frt. alld. E	lb.	.16	—
l.c.l., same basis	lb.	.17	—
tanks, same basis	lb.	.14½	—
Diethylether, dms., l.c.l., works.	lb.	.50	—
Monobutylether, dms., c.l., works.	lb.	.21½	—
l.c.l., works	lb.	.22	—
tanks, works	lb.	.20	—
Monoethylether, dms., c.l., works.	lb.	.18	—
l.c.l., works	lb.	.18½	—
tanks, works	lb.	.16½	—
Monoethylether acetate, dms., c.l., works	lb.	.16½	—
l.c.l., works	lb.	.17	—
tanks, works	lb.	.15	—

MONTROSE MONTROSE MONTROSE
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DDT Government Specifications

2,4-D Acid, Salt and Isopropyl Ester

TRICRESYL PHOSPHATE

ERGOSTEROL (Non Irradiated)

MONTROSE CHEMICAL COMPANY
LISTER AVENUE, NEWARK, NEW JERSEY
SELLING AGENTS R. W. GREEFF & CO., INC. 10 ROCKEFELLER PLAZA, NEW YORK, N.Y. TRIBUNE TOWER, CHICAGO, ILLINOIS

Ethyleneglycol monomethylether, dms., c.l., works lb. .19½- —
l.c.l., works lb. .20 - —
tanks, works lb. .18 - —
Monomethylether acetate, dms., c.l., works lb. .24½- —
l.c.l., works lb. .25 - —
tanks, works lb. .23 - —
Ethylethanolamines, mixed, dms., c.l., works lb. .32 - —
l.c.l., works lb. .33 - —
Ethylmorphine hydrochloride, USP, bots oz. 11.85 - —
Ethylorthotoluidine, bbls lb. .50 - —
Ethylvanillin, cns., 5 lbs. or more lb. 6.75 - —
smaller lots lb. 6.50 6.90
Eucalyptol, USP, cns., dms. lb. 1.85 2.05
Eucalyptus leaves, bls lb. .12 .13
Eugenol, prime, USP lb. 2.05 - 2.75
Euphorbia pil., herb, bls lb. .15 - .17

F

Feldspar, enamel, 100 mesh, bgs., works ton. 20.00 -22.00
Glass, 20 mesh, bulk, tons, works ton. 11.75 -12.50
bulk, c.l., works ton. 18.00 -20.00
Pottery, bgs., 2 ton lots, works, ton. 20.00 -22.00
bulk, c.l., works ton. 17.00 -19.00
Fennel seed, Argentine, bgs lb. .12½- .13
Indian, bgs. lb. .12½- 13
Fenugreek, domestic, bgs. lb. No stocks.
Indian, bgs lb. .10½- .11
cultures, bgs. lb. .10¼- .10½
Moroccan, bgs lb. .11 - 14
Fennel seed, Argentine, bgs lb. .13¼- .13½
Ferric-ammonium citrate (see iron-ammonium citrate).
Ferric cacodylate (see iron cacodylate).
Ferric glycerophosphate (see Iron glycerophosphate).
Ferric hypophosphite (see Iron hypophosphite).
Ferric sulphate (see Iron sulphate, ferric)
Film scrap, colored, cs., works lb. .12 - —
water-white, cs., works lb. .13 - —
Fir balsam, Canada, cns gal. 34.50 -35.00
Oregon, bbls gal. 2.35 2.45
Fishberries, bgs lb .24 .25
Fishliver oil (see Oil, fishliver).
Fishmeal, ground, 60% protein, bgs., Balto. area ton. 150.00 Nom.
65% protein, bgs Balto. area, ton. 155.00 Nom.
Fishscrap, dried, 60% protein, bulk, Balto. area ton. 142.50 Nom.
Fleaseed (see Psyllium seed).
Fluorspar, acid grade, bgs., c.l., mines ton. 47.50 - —
l.c.l., mines ton. 49.50 - —
bulk, contract, c.l., mines ton. 42.00 - —
noncontract, c.l., mines ton. 45.00 - —
l.c.l., mines ton. 47.00 - —
ceramic grade, No. 1, ground, 90-92% CaF., bulk, c.l., mines net ton. 39.00 -41.00
washed, gravel, 70% or more, CaF., bulk, c.l., mines ton. 35.00 -37.00
65%, bulk, c.l., mines ton. 34.00 -36.00
60%, bulk, c.l., mines ton. 33.00 -35.00
less than 60%, bulk, c.l., mines, ton. 32.00 -34.00
Formaldehyde, USP (inhibited), dms., c.l., E. works lb. .0570- —
l.c.l., E. works lb. .0620- —
tanks, E. works lb. .0370- —
methanol-free (uninhibited) tanks, works lb. .0350- —
Tankcar and tankwagon prices above are on a delivered basis in New England, Eastern New York, N. J., Eastern Penna., and part of Delaware. In states other than Eastern Seaboard, as well as W. of Rockies, prices f.o.b. Texas plants, are .022 for inhibited and .020 for uninhibited.
Fringetree bark, bls. lb. .45 .47
Fuller's earth, dom., powd., bgs., c.l., Fla., Ga. mines ton. 30.00 - —
Tex., mines ton. 27.00 - —
spent, bulk, Bayonne ton. 2.00 - 4.00
imp., bgs., c.l. ton. 30.00 -40.00
Furfural, tech., dms., c.l., works lb. .12 - —
l.c.l., works lb. .14 - —
tanks, works lb. .09½- —
Fusel oil, refined, dms., c.l. lb. .25½- —
l.c.l. lb. .26½- —
tanks lb. .24 - —
Fustic extract, cryst., No. 1, bbls., l.c.l. lb. .42½- —
No. 1A, bbls., l.c.l. lb. .41½- —
No. 2, bbls., l.c.l. lb. .40½- —
No. 3, bbls., l.c.l. lb. .38¼- —
liquid, No. 0, bbls., l.c.l. lb. .22 - —
No. 1, bbls., l.c.l. lb. .20½- —
No. 2, bbls., l.c.l. lb. .19½- —
No. 3, bbls., l.c.l. lb. .17 - —
solid, No. 1, bxs., l.c.l. lb. .23 - —

G

G salt, bbls lb. .59 - .60
Galangal root, bls. lb. .14 - 15
Gambier, plantation, bgs., ex dock lb. No stocks.
Extract, bbls No stocks.
Gammapicoline, 95%, dms., c.l., works lb. 1.00 1.05
Gasoline, at refinery, ex tax, Arkansas, 73-75 octane, tanks, gal. .10125- —
Bayonne, 76 octane, tanks gal. .126 - —
Gulf coast, 73-75 octane, tanks, gal. .10 - .11
Group 3, 73-75 octane, tanks gal. .09875- .1025
Pennsylvania, western, U. S. motor, 74 octane, leaded tanks gal. .1175- .12
natural, 26-70 octane, group 3, tanks gal. .05 - —
Gelatin, silver label, cs., works lb. 1.20 - —
Gelsemium root, bls. lb. .35 - .40
Gentian root, bls. lb. .15 - .16
grd., bbls., bxs. lb. .18 - .19
powd., bbls., bxs lb. .19 - .20
Geraniol, extra, cns., dms lb. 2.50 - 2.75
prime lb. 2.20 - 2.40
Geranyl acetate, cns lb. 2.65 - 3.90
Ginger, oleoresin, bots lb. 9.65 - 9.75
Root, African, bls lb. .24½- .25
Cochin, bleached, bgs lb. No stocks.
unbleached, bgs. lb. .20 Nom.
Jamaica, No. 1, bgs lb. .25 Nom.
No. 2, bgs., futures lb. .33 - .33½
No. 3, bgs., futures lb. .32 - .32½
Ginseng root, cs lb. 12.00 -16.00
Glauber's salt, anhyd. (see Sodium sulphate),
cryst., bgs., c.l., works 100 lbs. 2.00 - —
l.c.l., bgs., works 100 lbs. 2.25 - 2.50
Glue, bone, calcium type, 24 millipoise, 40 jellygrams, bgs., c.l., East of Midwest lb. .14½- —
40-65, bgs., c.l., same basis lb. .16½- —
65-90, bgs., c.l., same basis lb. .18 - —
95-145, bgs., c.l., same basis lb. .22½- —
145-190, bgs., c.l., same basis lb. .25 - —
Bone glue, l.c.l., prices 1c. higher than c.l.
ground, 40-45 jellygrams, bgs., c.l. (30,000 lbs.), dlvd lb. .16 - —
l.c.l., same basis lb. .17 - —
Glue, bone, calcium type, pulverized, 50-60 jellygrams, bgs., c.l. (30,000 lbs.), same basis, lb. .18½- —
l.c.l., same basis lb. .19½- —
Hide, 100-121 (jellygrams), bgs., c.l., dlvd lb. .24 - .25
122-149, bgs., c.l., dlvd lb. .25 - .26
150-177, bgs., c.l., dlvd lb. .26 - .27
178-206, bgs., c.l., dlvd lb. .27 - .29
207-236, bgs., c.l., dlvd lb. .28 - .30
237-266, bgs., c.l., dlvd lb. .29 - .31
267-296, bgs., c.l., dlvd lb. .30 - .32
299-330, bgs., c.l., dlvd lb. .31 - .33
331-362, bgs., c.l., dlvd lb. .32 - .35
363-394, bgs., c.l., dlvd lb. .33 - .36
395-427, bgs., c.l., dlvd lb. .34 - .37
428-460, bgs., c.l., dlvd lb. .35 - .38½
461-494, bgs., c.l., dlvd lb. .36 - .40
495-529, bgs., c.l., dlvd lb. .37 - .41
Hide glue, l.c.l., prices 1c. higher than c.l.; bbls., ½c. more than bgs.
Glycerin, crude, saponification, 88%, to refiners, tanks, dlvd lb. .16¾- —
soaplye, 80%, tanks, dlvd lb. .15¼- —
dynamite, dms., c.l., dlvd lb. .24 - —
l.c.l., dlvd lb. .24½- —
tanks, dlvd lb. .23½- —
high gravity, dms., c.l., dlvd lb. .24¼- —
l.c.l., dlvd lb. .24¾- —
tanks, dlvd lb. .23¾- —
refined, BP, 98%, dms., c.l., dlvd. lb. .25½- —
l.c.l., dlvd lb. .26 - —
tanks, dlvd lb. .25 - —
USP, c.p., 95%, dms., c.l., dlvd lb. .24¾- —
l.c.l., dlvd lb. .25¼- —
tanks, dlvd lb. .24¼- —
yellow, distilled, dms., c.l., dlvd. lb. .24½- —
l.c.l., dlvd lb. .24⅝- —
tanks, dlvd lb. .23⅝- —
Glycine USP (see Acid, aminoacetic).
Glycol boriborate, dms lb. .22 - —
Stearate, dms lb. .26 - —
Glyoxal, 30%, dms., c.l., works lb. .17½- —
l.c.l., works lb. .18 - —
tanks, works lb. .17 - —
Gold chloride, acid-brown, bots oz. 22.00 -22.25
acid-yellow, bots oz. 20.00 -20.25
Gold of pleasure seed, bgs lb. .40 .41
Golden seal, root, bls. lb. 3.75 - 4.00
powd., bxs lb. 4.25 - 4.50
Gold-sodium chloride, photo, bots oz. 13.50 -14.00
USP IX, bots oz. 14.50 -15.00
Grains of paradise, bgs lb. .27 - .28
Graphite, imported, amorph., powd., bgs., dlvd lb. .04 .06
crystalline, 85-90%, powd., bgs., ex whse lb. .14 - .16
90-92%, powd., bgs., ex whse, lb. .16 .19
97%, powd. bgs., ex wnse lb. .22 .25
flake, No. 1, 96-95%, bgs., ctns., ex whse lb. .21 - .22
No 2 whse lb .23 - —
Grease, house, dlvd., loose lb. .04½ Nom.
White, choice, loose lb. .04⅞- .05
Wool (see Degras and Lanolin)
Yellow, loose lb. .04⅝- —
Green, brilliant, thionavin, tone, molybdic, kgs., works lb. 4.25 - 4.50
Tungstic, kgs., works lb. 4.25 - 4.50
Chrome, CP, dark, light, medium, blue content up to 5%, bbls., dlvd., N. of Tenn. and N. C. E. of Miss., including St. Paul, Minneapolis, Davenport, Rock Island, St. Louis lb. .37½- —
6-10%, bbls., same basis lb. .38½- —
11-15%, bbls., same basis lb. .39¼- —
16-20%, bbls., same basis lb. .40 - —

Ethyleneglycol Monomethylether—Green, Chrome, Reduced

Green, chrome, color content 21-25%, bbls., same basis lb. .41 - —
26-30%, bbls., same basis lb. .41¼- —
31-35%, bbls., same basis lb. .41 - —
36-40%, bbls., same basis lb. .44 - —
41-45%, bbls., same basis lb. .45½- —
46-50%, bbls., same basis lb. .47¼- —
50% and over, bbls., same basis lb. .48¼- —
reduced color, 5%, bbls., same basis lb. .13 - —
6-10%, bbls., same basis lb. .13¾- —
11-13%, bbls., same basis lb. .14¼- —
14-16%, bbls., same basis lb. .15 - —
17-19%, bbls., same basis lb. .15¼- —
20-21%, bbls., same basis lb. .15½- —
22-23%, bbls., same basis lb. .15¾- —
24-25%, bbls., same basis lb. .16 - —
26-27%, bbls., same basis lb. .16½- —
28-29%, bbls., same basis lb. .17 - —
30-31%, bbls., same basis lb. .18 - —
32-33%, bbls., same basis lb. .19¼- —
34-35%, bbls., same basis lb. .20¼- —

Is this your problem?

Here's your answer!
MALLINCKRODT STEARATES

1 Making water-repellent building materials?

CALCIUM STEARATE — renders water repellent such materials as cement, cement composition, wood, brick, stone, fiber and fabric.

2 Suspending pigments, producing "flatting" or increasing body in paints, lacquers, or varnishes?

CALCIUM STEARATE
ZINC STEARATE — produce flatting effect in lacquers.

CALCIUM STEARATE
ZINC STEARATE
MAGNESIUM STEARATE — increase body in varnish; prevent settling of pigments in paints and enamels.

3 Preventing plastics from sticking to molds and dies?

CALCIUM STEARATE — is added to plastics for internal lubrication and dusted into molds or onto dies for molding and extrusion.

4 Rendering crystals free-flowing and non-caking?

CALCIUM STEARATE — coats crystals against moisture.

5 Making stable cosmetic powders?

ZINC STEARATE
MAGNESIUM STEARATE — produce soft, smooth, fluffy, odor-stable powders that have good covering power and add "bloom" to a face or body powder.

6 Molding medicinal tablets?

MAGNESIUM STEARATE — in small amounts is an excellent tablet lubricant.

Mallinckrodt specializes in producing specialized stearates, particularly designed to meet the stringent requirements of users. When makers of butyl rubber needed a special grade of zinc stearate to stabilize their emulsions; when the U.S. Navy needed a special magnesium stearate for anti-flash burn ointment; when a cosmetic manufacturer needed a special type of zinc stearate to withstand higher temperatures during processing, *Mallinckrodt produced the answer.*

Our many years of experience in the uses of metallic soaps is at your service. We shall be glad to consult with you on your particular problem. Write us today.

82 Years of Service to Chemical Users

Mallinckrodt Chemical Works

Mallinckrodt Street, St. Louis 7, Mo.
72 Gold Street, New York 8, N. Y.
Chicago • Cincinnati • Cleveland • Los Angeles
Montreal • Philadelphia • San Francisco

Uniform Dependable Purity

Green, Chrome, Reduced Color—Hyssop Leaves

Green, chrome, c.p., reduced color, 36-40%, bbls., same basis lb. .23 - —
41-45%, bbls., same basis lb. .25¼ - —
46-50%, bbls., same basis lb. .26¾ - —
51-55%, bbls., same basis lb. .26½ - —
56-60%, bbls., same basis lb. .27 - —
61-65%, bbls., same basis lb. .28 - —
66-70%, bbls., same basis lb. .29¼ - —

Chrome green prices are ½c. higher dlvd. Ala., Fla., Ga., La. (Shreveport, 1½c.), Miss., N. C., S. C., Tenn., Texas (Dallas, Ft. Worth, 1¼c.; El Paso, 2c.), Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph; 1c. higher dlvd. Pac. coast; for Denver, Pueblo, Salt Lake City, Wichita prices are equalized with Chicago.

Chromium oxide, hydrated, bbls., works lb. .75 - 1.00
pure, bgs., frt. alld lb. .33 .40
Dyes (see Dyes, coaltar).
Malachite, thioflavin toner, molybdic, bbls., works lb. 3.00 - —
Tungstic, bbls., works lb. 3.40 —
Paris (see P).
Phthalocyanin toner, bbls., works, lb. 4.40 - 5.00
Tungstated, brilliant, kgs lb. 3.00 - 4.00
Emerald, kgs lb. 2.60 - —
Verdigris (see V).
Grindelia robusta herb bls lb. .25 .30
Guaiac resin, cs lb. .48 .49
Wood, bls lb. .35 .36
Guaiacol, cryst., tins lb. No prices.
Liquid, NF, bots., cbys lb. 1.90 - 1.95
Carbonate, dms lb. 2.95 - 3.00
Guarana, powd., cs lb. 2.00 - 2.10
Gum, accroides (see Gum, yacca).
Aloe (see A.)
Ammoniac, tears, cs lb. .90 - .95
Arabic, amber, sorts, bgs lb. .12 - .14
powdered, USP, bbls lb. .20½ - .21
Asafetida (see A).
Asphalthum (see A).
Benzoin, Sumatra, cs lb. .38 - .40
Camphor (see C).
Copal, Congo, No. 1, bgs lb. .23 - .25
No. 2, bgs. lb. .19 - .21
No. 3, bgs. lb. 14 - .16
Manila, loba, B, bgs. lb. .26 - .28
C, bgs. lb. .24 - .26
CBB, bgs. lb. .19 - .21
CNE, bgs. lb. .13½ - .15
DBB, bgs. lb. .18 - .20
DK, bgs. lb. .13½ - .15
dust, bgs. lb. .07½ - .09
soft, MA, bgs. lb. .13½ - .15
WS, bgs. lb. .20 - .21
Philippine, pale, chips, bgs lb. .18½ - .20½
nubs, bgs. lb. .22 - .24
seeds, bgs. lb. .15 - .16
sorts, bgs. lb. .17½ - .19¼
Pontianak, chips, bgs. lb. .22 - .24
nubs, bgs. lb. .35 - .38
Dammar, Batavia, A D, bgs lb. .28 - .30
A-E, bgs. lb. .23 - .24
dust, bgs lb. .03½ - .09¼
E, bgs. lb. 14 - .15
East India, batu, bold, bgs lb. .09¾ - .11
nubs & chips, bgs. lb .07½ - 09
Gum dammar, East India, black, bold, bgs lb. .12½ - .13½
unscraped, bgs. lb. .09½ - .10½
nubs & chips, bgs. lb. .09½ - .10½
pale, chips, bgs. lb. .13 - .15
nubs, bgs. lb. .26 - .28
Singapore, No. 1, bgs lb. .30 - .32
No. 2, bgs. lb. .22 - .23
No. 3, bgs. lb. .10 - .12
dust, bgs. lb. .09 - .10
seeds, bgs. lb. .13 - .14
Elemi, cns lb. .21 - .22
Ester, gum-rosin type, dms., c.l., dlvd. Ill., Ind., Ky., Mich., Mid-Atl. States, N. E. States, Minneapolis, N. C., Ohio, St. Louis, St. Paul, Va., W. Va lb. .17 - .17¾
wood-rosin type, dms., c.l., dlvd. Ill., Ind., etc lb. .17 - .17¾
Euphorbium, cs lb. .50 - .55
Galbanum, cs lb. .98 - 1.00
Gamboge, pipe, cs lb. 1.20 - 1.25
powd., bbls lb. 1.35 - 1.40
Ghatti, No. 2, bgs lb. .35 - .37
No. 3, bgs lb. .31 - .33
Guaiac (see Guaiac resin).
Karaya, powd., No. 1 lb. .49 - .50
No. 2 lb. .41 - .45
No. 3 lb. .35 - .36
No. 4 lb. .32 - .33
No. 5 lb. .30 - .31
No. 6 lb. .28 - .31
Kauri, bgs lb. .31½ - .32¾
Locust bean, powd., bgs lb. .35 - .37
Mastic, cs lb 2.25 - 2.30
Myrrh, cs lb. .35 - .38
Olibanum, siftings, cs lb. .12 - .13
tears, cs lb. .22 - .38
Opium (see O).
Red (see Gum, yacca).
Rosin (see R).
Gum, sandarac, cks lb. .90 - .95
Scammony, cs lb. 1.50 - 1.55
Sterculia (see Gum, karaya).
Talha, bgs lb. 10 - 11
Tragacanth, No. 1, cs lb. 3.00 - 3.25
No. 2, cs lb. 2.40 - 2.65
No. 3, cs lb. 2.00 - 2.25
powdered, USP, bbls lb. 1.35 - 1.45
Yacca, bgs lb 06 - —
Gypsum, Keane's cement, paper bgs., c.l., Acme, Tex., frt. equald ton 22.65 - —
Harlem river, N. Y., frt. equald ton 28.25 - —
Medicine Lodge, Kan., frt. equald ton 17.00 - —
New Brighton, N. Y., frt. equald ton 30.65 - —
Southard, Okla., frt. equald ton 17.00 - —
Sweetwater, Tex., frt. equald ton 21.45 - —
Plaster of paris, paper bgs., c.l., Acme, Texas, frt. equald ton 12.50 - —
Blue Rapids, Kans., frt. equald ton 19.50 - —
Harlem river, N. Y., frt. equald ton 12.00 - —
Medicine Lodge, Kan., frt. equald ton 12.50 - —
New Brighton, N. Y., frt. equald ton 18.00 - —
Southard, Okla., frt. equald, ton 12.50 - —
Sweetwater, Tex., frt. equald ton 12.50 - —
Stucco, paper bgs., c.l., Acme, Texas, frt. equald ton 8.00 - —
Akron, N. Y., frt. equald ton 8.00 - —
Blue Rapids, Kans., frt. equald ton 8.00 - —
Clarence Center, N. Y., frt. equald ton 8.00 - —
Fort Dodge, Iowa, frt. equald ton 8.00 - —
Grand Rapids, Mich., frt. equald ton 8.00 - —
Gypsum, Ohio frt. equald ton 8.00 - —
Harlem river, N. Y., frt. equald ton 8.00 - —
National City, Mich., frt. equald ton 8.00 - —
New Brighton, N. Y., frt. equald ton 8.00 - —
Plasterco, Ga., frt. equald ton 8.00 - —
Portsmouth, N.H., frt. equald, ton 8.00 - —
Roton, Texas, frt. equald ton 8.00 - —
Saltville, Va., frt. equald ton 9.00 - —
Southard, Okla., frt. equald ton 8.00 - —
Sweetwater, Texas, frt. equald ton 8.00 - —
Terra alba, paper bgs., c.l., Harlem river, N. Y., works ton 22.50 - —
New Brighton, N. Y., works ton 21.00 - —

H

Hawthorn berries, bgs lb. .55 - .57
Heliotropin, cryst., cns lb 2.85 - 3.05
Hellebore root, white, powd., bbls lb. .40 - .45
Helonias root, bls lb. 1.70 - 1.80
Hematine extract, cryst., No. 0, bbls., l.c.l lb. .45½ - —
No. 1, bbls., l.c.l. lb. .44½ - —
No. 1A, bbls., l.c.l lb. .41½ - —
No. 2, bbls., l.c.l. lb. .40½ - —
No. 3, bbls., l.c.l lb. .38½ - —
No. 4, bbls., l.c.l. lb. .36½ - —
No. 5, bbls., l.c.l lb. .34½ - —
paste, No. 1, bbls., l.c.l lb. .19 - —
No. 2, bbls., l.c.l lb. .18 - —
No. 3, bbls., l.c.l. lb. .17 - —
No. 4, (red), bbls., l.c.l. lb. .12½ - —
Hemlock bark extract, 25% tannin, bbls., c.l., works lb. No stocks.
tanks, works lb. No stocks.
Henbane leaves, bls lb. .40 - .75
Henna leaves, bls lb. 21 - 23
powd., bbls., bgs lb. .25 - .27
Heptane, industrial, Bayonne, N. J., tanks gal. 16 - —
group 3, tanks gal. .12½ - .13¼
Hexalin (see Cyclohexanol).
Hexamethylenetetramine, tech., bbls. 1,000-lb. lots, Perth Amboy or N.Y.C. lb. .27½ - —
smaller lots, same basis lb. .28½ - —
USP, dms., 500 lbs. or more, same basis lb. .38½ - —
smaller lots, same basis lb. .39½ - —
Hexamine (see Hexamethylene tetramine).
Hexane, industrial, group 3, tanks. gal. .13½ - .14¼
Bayonne, N. J., tanks gal. .16 - —
Hexanol, normal, dms., c.l., works. lb. .30½ - —
l.c.l., works lb. .31 - —
tanks, works lb. .29 - —
Hexylenglycol (see Methylpentanediol).
Hexylresorcinol, USP, 100 lbs. up, frt. alld lb. 19.00 - —
works lb. 19.00 -27.75
smaller lots, frt. alld lb. 20.00 -21.50
works lb. 20.00 -33.50
Histidine hydrochloride—laevo, NF, fib. dms., works, 50 kilos. kilo. 120.00 - —
1-5 kilos kilo. 130.00 - —
Homatropine hydrobromide, USP, bots oz. 15.00 -25.00
Hydrochloride, bots oz. 20.00 -22.00
Methylbromide, NF oz. 14 50 -18.00
Hoofmeal, 17-18% ammonia bulk, c.l., Chicago unit-ton. 7.00 - —
Hops, NF, bls. lb. .40 - .45
Horehound, bls. lb. .12 - .15
Hydrangea root, bls lb. .14 - .17
Hydrastine, bots oz. 53.50 -53.00
Hydrochloride, NF oz. 29.50 -36.00
Sulphate, bots oz. 53.50 -53.00
Hydrastinine, 10-grain bots bot. 1.95 - —
Hydrastis (see Goldenseal).
Hydrofuramide, dms., fib. cans., works lb. .30 - .40
Hydrogen peroxide, USP, bbls lb. .03¾ - .05
27½%, cbys., E. of Miss. or W. coast via Panama Canal lb. .17½ - .19¼
35%, cbys., same basis lb. .23½ - —
dms., c.l., same basis lb. .20½ - —
l.c.l., same basis lb. .21½ - —
tanks lb. .19¼ - —
Hydroquinone, bbls., dms lb. .90 - .94
Hydroxycitronellal, cns lb. 5.35 - 6.50
Hyoscine hydrobromide, bots oz. 34.00 -38.00
Hyoscyamine, bots oz. 18.00 -20.00
Hydrobromide, bots oz. 18.00 -19.50
Sulphate, bots oz. 14.00 -19.50
Hypernic extract, cryst., No. 1, bbls., l.c.l lb. .56 - —
No. 2, bbls., l.c.l lb. .48 - —
liquid, No. 1, bbls., l.c.l lb. .30 - —
No. 2, bbls., l.c.l lb. .25 - —
solid, No. 1, bxs., l.c.l lb. .44 - —
Hyssop herb, bgs lb. .45 .50
Leaves, bgs lb. .55 .60

Acetone	$CH_3{\cdot}CO{\cdot}CH_3$
Acrolein	$CH_2{:}CH{\cdot}CO{\cdot}H$
Allyl Alcohol	$CH_2{:}CH{\cdot}CH_2OH$
Allyl Chloride	$CH_2{:}CH{\cdot}CH_2Cl$
Diacetone Alcohol	$CH_3{\cdot}CO{\cdot}CH_2{\cdot}COH(CH_3)_2$
Diisobutylene	$CH_2{:}C(CH_3){\cdot}CH_2{\cdot}C(CH_3)_3$ & $(CH_3)_2{\cdot}C{:}CH{\cdot}C(CH_3)_3$
Di-Tertiary Butyl Peroxide	$(CH_3)_3{\cdot}COOC{\cdot}(CH_3)_3$
Epichlorohydrin	$CH_2Cl{\cdot}\underset{O}{CH}{\cdot}CH_2$
Ethyl Alcohol	$CH_3{\cdot}CH_2OH$
Glycerine (*Synthetic*)	$CH_2OH{\cdot}CHOH{\cdot}CH_2OH$
Glycerol Dichlorohydrin	$CH_2Cl{\cdot}CHCl{\cdot}CH_2OH$ & $CH_2Cl{\cdot}CHOH{\cdot}CH_2Cl$
Hexylene Glycol	$(CH_3)_2{\cdot}COH{\cdot}CH_2{\cdot}CH(OH)CH_3$
Isopropyl Alcohol (*Refined 99%*)	$CH_3{\cdot}CHOH{\cdot}CH_3$
Isopropyl Ether	$(CH_3)_2{\cdot}CH{\cdot}O{\cdot}CH(CH_3)_2$
Mesityl Oxide	$CH_3{\cdot}CO{\cdot}CH{:}C(CH_3)_2$
Methyl Ethyl Ketone	$CH_3{\cdot}CO{\cdot}C_2H_5$
Methyl Isobutyl Carbinol	$(CH_3)_2{\cdot}CH{\cdot}CH_2{\cdot}CH(OH)CH_3$
Methyl Isobutyl Ketone	$CH_3{\cdot}CO{\cdot}CH_2CH(CH_3)_2$
Secondary Butyl Alcohol	$CH_3{\cdot}CHOH{\cdot}C_2H_5$
Tertiary Butyl Alcohol	$(CH_3)_3{\cdot}COH$

ALSO

Ionol, an anti-oxidant

Alkylated Aromatic, a detergent intermediate

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LOS ANGELES HOUSTON ST. LOUIS CHICAGO
CLEVELAND BOSTON DETROIT NEWARK

time

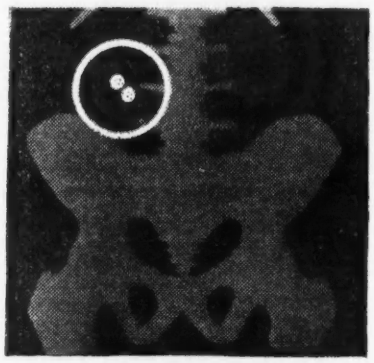
place

disintegration

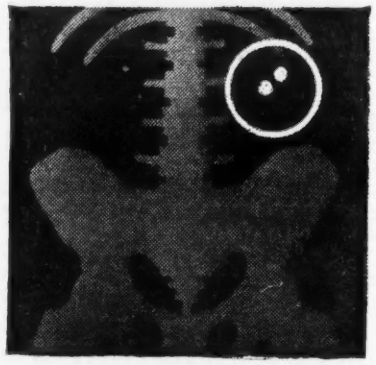
and the problem of a superior

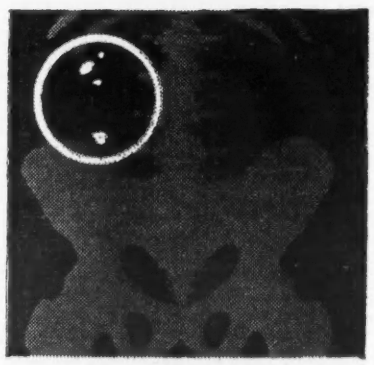
enteric coating

Enteric coated tablets ½ hour after ingestion.

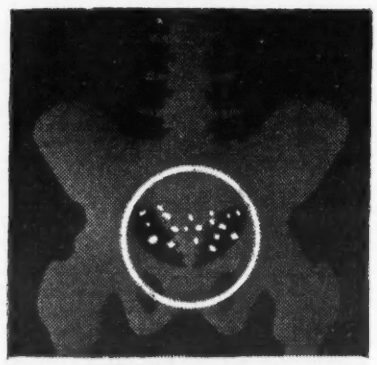


Same tablets 1 hour after ingestion.





Same tablets 2½ hours after ingestion.



Same tablets 3½ hours after ingestion — showing complete disintegration.

Strong Cobb, as a part of their general research program, studied the development of an *enteric coating* which would disintegrate at a predetermined site in the gastro-intestinal tract, and at a predetermined time.

After months of laboratory work, the staff of pharmaceutical research chemists came up with the answer . . . then the *enteric coating* had to be clinically tested.

A group of ambulatory patients was used for the study. The Strong Cobb *enteric coating* was used on 0.75 Gram tablets of barium sulfate, U.S.P. Fifty-four fluoroscopic observations were made in a large university hospital. These observations were substantiated by x-ray studies.

here is the record— representative of the clinical findings

Again — Strong Cobb had developed something more dependable in pharmaceuticals.

Today Strong Cobb is the largest private formula house in the Country. Its operations are divided into two classes: (1) Strong Cobb are consultants in solving technical manufacturing problems which you may encounter in fabricating your product. They will then undertake the manufacture together with full labeling, packaging and control work. (2) Strong Cobb are engaged in basic research in the development of new products which, when full laboratory and clinical research is completed, are made available to the trade under license agreements. Why not discuss your problems with our Technical Sales Director?

Write for a free copy of our booklet,
"A TEN-MINUTE TOUR IN PICTURES OF STRONG COBB & COMPANY."

Strong Cobb & Co. Inc.

2654 Lisbon Road, Cleveland 4, Ohio

Iceland Moss—Lime, Hydrated

I

Iceland moss, bgs ..... lb. .40 - .50
Ichthammol, NF, bots ..... lb. 2.45 - —
powd., bbls ..... lb. .74½- .85
Indian red (see Red, Indian).
Indigo, nat., chests ..... lb. 2.14 - 2.16
synth., paste, bots ..... lb. .23 - —
Indol, CP, bots ..... lb. 17.60 -19.00
Inositol, tins, dlvd ..... lb. 5.00 - —
Insect flowers (see Pyrethrum).
Iodine, crude, kgs., ex whse, Staten Island ..... lb. 1.729 - —
resubl., USP, bots., jars ..... lb. 2.55 - 2.65
Iodochlorohydroxyquinolin, NF, dms ..... lb. 6.40 - —
Iodoform, NF, dms., kgs ..... lb. 4.30 - 4.74
Ionone, alpha, cns ..... lb. 5.15 -12.30
beta, cns ..... lb. 7.05 - 6.50
Methyl (see M).
IPC, bots., 1-5 lbs ..... lb. 2.68 - 2.72
fib. dms., 100 lbs., ship't point ..... lb. 2.30 - 2.50
50 lbs., ship't point ..... lb. 2.40 - 2.52
10-25 lbs., ship't point ..... lb. 2.50 - 2.54
Ipecac root, bgs ..... lb 3.85 - 4.60
powd., bgs. ..... lb. 4.25 - 4.90
Irish moss, bleached, prime, bls ..... lb. .18 - .19
Iron acetate, liquor, 28° bbls., c.l., works ..... lb. .09 - —
l.c.l., works ..... lb. .09¾- —
solut., USP IX, cbys ..... lb. .16 - —
djns. ..... lb. 17 - —
Cacodylate, NF, bots ..... lb. 13.50 -14.50
Chloride (ferric), anhydr., tech., dms., c.l., works ..... 100 lbs. 5.75 - —
l.c.l., works ..... 100 lbs. 6.50 - 7.50
Iron chloride, cryst., tech., bbls., works ..... 100 lbs. 5.00 - 6.00
l.c.l., bbls., works ..... 100 lbs. 5.50 - 8.00
USP X, lump, bbls ..... lb. .07½- .08
solut., 42 Be, cbys., works, frt. alld. or equald ..... lb. .06 - 06½
Citrate, gran., dms ..... lb. .77 - .79
Glycerophosphate, N.F., powd ..... lb. 4.25 - 4.35
Hypophosphite, NF, dms ..... lb. 2.80 - —
Iodide, bots ..... lb. 3.66 - 3.73
Naphthenate, liq., 6% Fe, dms., frt. alld ..... lb. .21½- 21¾
Nitrate, red, tech., dms ..... lb. .03½- .04
Oxalate, gran., dms ..... lb. .83 - .85
Phosphate, soluble, NF, gran., cs. ..... lb. .64 - .65
Pyrophosphate, soluble, NF VII, gran., dms ..... lb. .69 - .72
Reduced (see Iron by hydrogen).
Resinate, 7.4%, Fe, dms., frt. alld. ..... lb. .24 - —
Stearate, dms., c.l ..... lb. .38 - —
ton lots ..... lb. .39 - —
less ton lots ..... lb. .40 - —
Sulphate (ferric), anhyd., bgs., c.l., works ..... ton. 52.50 - —
l.c.l., works ..... ton. 57.50 - —
partially hydrated, bgs., c.l., works ..... ton. 28.50 - —
l.c.l., works ..... ton. 29.50 - —
(ferrous), tech. (see Copperas).
USP, cryst., bbls., dms ..... lb. .09½- .10
Iron by hydrogen, kgs ..... lb. .80 - .85
Iron-ammonium citrate, green, NF, gran., dms ..... lb. .55 - .58
brown, USP, gran., dms ..... lb. .55 - .58
Oxalate, dms ..... lb. .25½ .28½
Iron-potassium oxalate fine gran., dms. ..... lb. .30½- .33½
Iron-sodium oxalate, fine gran., dms ..... lb. .25½- .28½
Isobornyl acetate, cns ..... lb. .97 - 1.10
Isobutyl acetate, cns ..... lb. .82 - 1.25
Methacrylate, M-5, dms., works ..... lb. .60 - —
cns., works ..... lb. .63 - .67
P-5, cns., works ..... lb. .60 - —
Propionate, cns ..... lb. No prices.
Thiocyanocetate, dms., c.l., works. ..... gal. 3.85 - —
l.c.l., works ..... gal. 3.85 - 4.05
tanks, works ..... gal. 4.23 - —
Isobutyraldehyde, dms., works ..... lb. .50 - .53
Isoeugenol, cns. ..... lb. 3.10 - 3.40
Isoleucine, dextro-laevo, with allo-isoleucine, dms., works ..... lb. 28.00 -35.00
Isopentane, dms., works ..... lb. .45 - .55
Isophorone, dms., c.l., works ..... lb. .23½- —
l.c.l., works ..... lb. .24 - —
tanks, works ..... lb. .22 - —
Isopropanol (see Acohol, isopropyl).
Isopropyl acetate, dms., c.l., frt. alld. E. of Rockies ..... lb. .11½- —
l.c.l., same basis ..... lb. .12 - —
tanks, same basis ..... lb. .10 - —
Alcohol (see Alcohol, isopropyl).
Benzene (see Cumene).
Ether (see Ether, isopropyl).
Phenylcarbamate (see IPC).
Isopropylamine, dms., works, c.s. ..... lb. .24 - —
l.c.l., works ..... lb. .25 - —

J

Jaborandi leaves, bls ..... lb. .15 .20
Jalap root, NF, bls ..... lb. .40 - .45
powd., bbls., bxs ..... lb. .45 - .55
Resin, powd., bxs ..... lb. 7.15 7.25
Juniper berries, bgs. ..... lb .09 .18
Tar, USP, dms ..... lb .40 .65

K

Kamala, powd., cns ..... lb. .45 - .52
Kaolin (see China clay).
Kava kava root, bls. ..... lb. .28 - .31
Kerosene, at refinery: Ark., 42-44 specific gravity, w.w., tanks ..... gal. .09 - —
Bayonne, 41-43 s.g., w.w., tanks. ..... gal. .095 - —
California, 40-43, s.g., w.w., tanks. ..... gal. .121 - .156
Gulf ports, 41-43, s.g., w.w., tanks. ..... gal. .09 - .095
Okla.-Tex., 41-43, s.g., w.w., tanks. ..... gal. .08875- .0925
Penn., 45, s.g., w.w., tanks ..... gal. .11 - .1145
47, s.g., w.w., tanks ..... gal. .1125- —
Kola nuts, bgs ..... lb. .10 .12
Kyanite, imp., low iron content, 10-mesh, whse ..... ton. 85.00 -95.00
calcined, grain, 10-mesh, whse ..... ton. 95.00 -105.00

L

Lady slipper root, bls ..... lb. 1.55 - 1.85
Lanolin, anhyd., cosmetic, dms., works ..... lb. .24 - .26
pharmaceutical, USP, dms., works ..... lb. .22 - .24
hydrous ..... lb. .20 - .22
Lard, cash, trcs., Chicago ..... lb. .12¾- .13
Larkspur seed bgs ..... lb. .55 .40
Laurel berries, bls ..... lb. .25 - .26
Leaves, Portuguese, bls. ..... lb. .07¼- .08
Greek, bls ..... lb. .07 - .08
Turkish, bls ..... lb. .14 - .15
Lavender flowers, medium, bls. ..... lb. .65 - .66
ordinary, bls ..... lb. .20 - .21
select, bls. ..... lb. .70 - .75
Lead acetate, white, crystals, dms., ... lb. .25¼- —
gran., bbls. ..... lb. .26 - —
powd. bbls. ..... lb. .26 - —
Arsenate, dealers, basic powder, 3-lb. bgs., or larger, c.l., frt. alld ..... lb. .30 - —
l.c.l., ... lb. .31 - —
1-lb. bgs., c.l., frt. alld ..... lb. .38 - .41½
l.c.l. ..... lb. .39 - .42½
Lead arsenate prices are works or whse. basis frt. alld. on 96 lbs. or more to dest. East.
Blue basic sulphate, bbls., c.l., ship't point, frt. alld ..... lb. .18¼- —
l.c.l., works ..... lb. .19¼- —
Carbonate (see Lead, white).
Chloride, fib. dms ..... lb. .49 —
Iodide, NF V, jars ..... lb. 2.94 3.13
Linoleate, liq., 15% Pb, dms., frt. alld ..... lb. .39 - —
Metal, pigs, prime, N. Y ..... lb. .18 - —
E. St. Louis ..... lb. 17.80 -17.85
Metallic paste, dms., 10,000-40,000 lbs., works ..... lb. .27½- —
2,000-10,000 lbs., same basis ..... lb. .28½- —
1 to 2,000 lbs., same basis ..... lb. .30 - —
Naphthenate, liquid, 16% Pb, dms., frt. alld ..... lb. .16¾- .17¼
24% Pb, dms., frt. alld ..... lb. .23½- .24
30% Pb, dms., frt. alld ..... lb. .28½- .29
Nitrate, bbls., c.l ..... lb. .21¾- —
l.c.l. ..... lb. .22 - —
Oleate, bbls ..... lb. .33 —
Peroxide, powd., tech., bbls ..... lb. .41 .43
Red, 95% Pb_3O_4 or less, bbls., c.l., ship't point, frt. alld. ..... lb. .20¾- —
l.c.l., same basis ..... lb. .21¾- —
97% Pb_3O_4, bbls., c.l., same basis. ..... lb. .21 - —
l.c.l., same basis ..... lb. .22 - —
98% Pb_3O_4, bbls., c.l., same basis ..... lb. .21¼- —
l.c.l., same basis ..... lb. .22¼- —
Resinate, precip., dms., frt. alld ..... lb. .27¼- —
Silicate, bgs., l.c.l., shipt. point, frt. alld ..... lb. .1995- .2040
Stearate, bbls., c.l ..... lb. .40 - —
ton lots ..... lb. .41 - —
less ton lots ..... lb. .42 - —
Sulphate (see Lead, blue; Lead, white, basic sulphate).
Tallate, liquid, 16% Pb, dms ..... lb. .14¾- .15¼
solid, 30% Pb, dms ..... lb. .23½- .24
White, basic carbonate, bgs., c.l., ship't point, frt. alld ..... lb. .19¼- —
l.c.l., same basis ..... lb. .20¼- —
basic silicate, bgs., c.l., ship't point, frt. alld ..... lb. .17½- .22¼
l.c.l., same basis ..... lb. .18 - .23¼
basic sulphate, bgs., c.l., ship't point, frt. alld ..... lb. .18¼- —
l.c.l., same basis ..... lb. .19¼- —
Lecithin, edible, tech., bleached, dms., non-ret., c.l., works ..... lb. .16 - —
l.c.l., same basis ..... lb. .18½- —
unbleached, c.l., same basis ..... lb. .15 - —
l.c.l., same basis ..... lb. .17½- —
Lemon peel, bls ..... lb. .25 - .30
Leucine, dextro-laevo, dms., works ..... lb. 28.00 -35.00
Licorice extract, mass, cns ..... lb. .25 - .30
powd., bbls. ..... lb. .40 - .42
Root, bls ..... lb. .08 - .09
5-lb. bundles, cs ..... lb. .40 - .45
powd., bbls ..... lb .11 - .12
Lignin extract, tanning grade, bgs., c.l., works ..... lb. .04¾- —
Lime, agricultural, bgs., works ..... ton. 13.00 -13.50
Chemical (quicklime), lump, pebble, bulk, Adams, Mass. ..... ton. 9.00 - —
Annville, Pa ..... ton. 10.00 - —
Bellefonte, Pa ..... ton. 10.00 - —
Buffalo, N. Y ..... ton. 10.00 - —
Carey, Ohio ..... ton. 7.00 - —
Cedar Hallow, Pa ..... ton. 9.50 - —
Farnams, Mass. ..... ton. 9.00 - —
Gibsonburg, Ohio ..... ton. 8.50 - —
Hannibal, Mo ..... ton. 6.50 - —
Keystone, Ala ..... ton. 9.75 - —
Knoxville, Tenn ..... ton. 9.75 - —
Limedale, Ark ..... ton. 9.00 - —
Longview, Ala ..... ton. 9.75 - —
Martinsburg, W. Va ..... ton. 10.00 - —
Menominee, Mich ..... ton. 8.00 - —
Mitchell, Ind ..... ton. 7.50 - —
Rockland, Maine ..... ton. 9.00 - —
Scioto, Ohio ..... ton. 6.50 - —
Sherwood, Tenn ..... ton. 10.00 - —
Sherwood, Wis. ..... ton. 8.50 - —
Woodville, Ohio ..... ton. 9.50 - —
York, Pa ..... ton. 10.00 - —
Hydrated, paper bgs., Adams, Mass ..... ton. 11.50 - —
Annville, Pa ..... ton. 13.50 - —
Bellefonte, Pa ..... ton. 13.50 - —
Buffalo, N. Y ..... ton. 13.50 - —
Carey, Ohio ..... ton. 9.00 - —
Cedar Hollow, Pa ..... ton. 11.50 - —
Engle, W. Va ..... ton. 13.00 - —
Farnams, Mass. ..... ton. 11.50 - —
Gibsonburg, Ohio ..... ton. 9.50 - —
Hannibal, Mo ..... ton. 9.50 - —
Keystone, Ala ..... ton. 13.00 - —
Knoxville, Tenn ..... ton. 12.25 - —
Limedale, Ark ..... ton. 10.50 - —
Longview, Ala ..... ton. 13.00 - —
Manistique, Mich. ..... ton. 9.50 - —
Marblehead, Ohio. ..... ton. 10.50 - —
Mitchell, Ind. ..... ton. 10.00 - —

A page from the Stauffer Catalog

NUMBER FOUR IN A SERIES

Crystex Insoluble Sulphur..

CRYSTEX Insoluble Sulphur is widely used with natural rubber and synthetic elastomers. Like ordinary sulphur it is the vulcanizing agent. Unlike the regular soluble sulphur, CRYSTEX has the special property of not blooming on uncured stocks. CRYSTEX replaces ordinary rubbermakers sulphur in tire carcass stocks, white sidewalls, valve-patch frictions, re-treads and other repairs stocks. There is a place for it in shoe soles. The stability of the sulphur dispersion in a naphtha cement is improved when CRYSTEX is employed. Cord-dipping dispersions are made better with CRYSTEX in the place of ordinary sulphur. CRYSTEX is 99.5% sulphur and not less than 85% of it is rubber-insoluble at the usual milling temperatures. It is very finely divided to provide the desired distribution of the sulphur in the milled stock. Insoluble sulphur is a metastable form; that is, the conversion to the stable soluble form occurs at the usual vulcanizing temperatures. Compared with regular-sulphur stocks, those compounded with CRYSTEX may give slightly faster or somewhat "tighter" cures.

CRYSTEX Insoluble Sulphur, 99.5% pure (85% insoluble sulphur content) offers flexibility. Use straight for maximum control of sulphur-blooming. Blend with regular sulphur, or with Flowers of Sulphur (which normally tests 30% insoluble sulphur), to any lower "I. S." content a particular stock can get along with.

In line with the Stauffer Chemical Company's established policy, a continuing extension of the useful applications for this interesting product in rubber technology will enable Stauffer to offer CRYSTEX at lower cost. A description of particular problems will enable Stauffer to consult on the possible use of CRYSTEX Insoluble Sulphur in a given product.

A circular containing recent data and research information about CRYSTEX is available. This circular details various applications of CRYSTEX—tire carcass stock, white sidewalls, tube stocks, re-tread and other repairs stocks, mechanicals, naphtha cements, latex dispersions, reclaim stocks and bin stocks.

Packages: Paper bags (multiwall)—50 lbs. net.

USES: In all stocks which normally suffer from "bloom" in the uncured state, including repair stock such as retreads and recaps, and tire carcass stocks which lose "tack" in temporary storage; also in some critical mechanical goods stocks. CRYSTEX has also replaced ordinary sulphur in some latex compounds and naphtha cements.

STAUFFER PRODUCTS

DDT—(Dichloro-Diphenyl-Trichloroethane)
BHC—(Benzene Hexachloride)
2 4-D (Acid, Isopropyl Ester, Amine Salts)
Toxaphene—(Chlorinated Camphene)
Borax
Boric Acid
Tartaric Acid
Citric Acid
Titanium Trichloride
Carbon Bisulphide
Carbon Tetrachloride
Caustic Soda
Chlorine
Silicon Tetrachloride
Sulphur
Sulphur Chloride
Textile Stripper
Sulphuric Acid
Sodium Hydrosulphide

Stauffer CHEMICALS SINCE 1885

STAUFFER CHEMICAL CO.

420 Lexington Avenue, New York 17, N.Y. · 221 North LaSalle Street, Chicago 1, Illinois
555 South Flower Street, Los Angeles 13, Cal. · 636 California Street, San Francisco 8, Cal.
424 Ohio Bldg., Akron 8, O · Apopka, Fla. · N. Portland, Ore · Houston 2, Tex. · Weslaco, Tex.

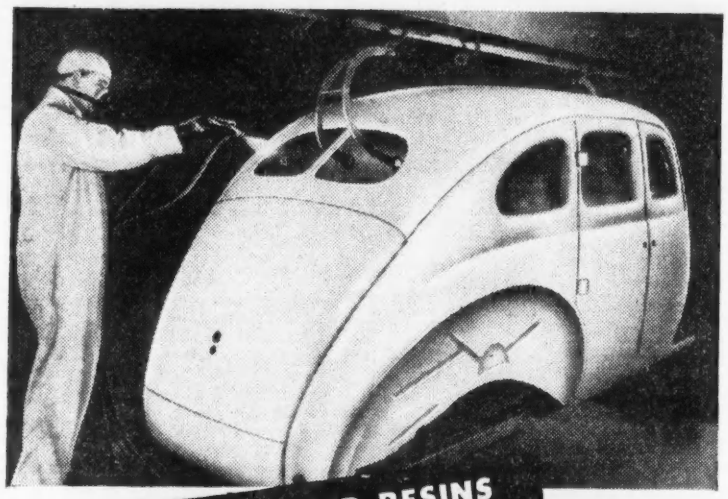
Lime, hydrated, Petoskey, Mich. ton 10.00 - —
Port Island, Mich. ton. 9.00 - —
Rapid City, S. Dak. ton 12.00 - —
Rockland, Maine ton. 9.00 - —
Scioto, Ohio ton. 8.00 - —
Sherwood, Tenn. ton 13.00 - —
Sherwood, Wis. ton 10.00 - —
Springfield, Mo. ton. 9.00 - —
Woodyville, Ohio ton. 8.50 - —
York, Pa. ton 13.50 - —
Spray, paper bgs., Adams, Mass. ton 11.70 - —
Annville, Pa. ton 13.50 - —
Bellefonte, Pa. ton 13.50 - —
Carey, Ohio ton 11.00 - —
Engle, W. Va. ton 13.00 - —
Farnams, Mass. ton. 9.50 - —
Gibsonburg, Ohio ton 10.00 - —
Marblehead, Ohio ton 10.00 - —
Rockland, Me. ton 10.00 - —
Scioto, Ohio ton 10.00 - —
Woodville, Ohio ton 10.00 - —
York, Pa. ton 13.50 - —
Lime salts (see Calcium).
Lime-ammonia-nitrogen, 20.5% N (see Ammonium nitrate-limestone).
Limestone, grd., bgs., works ton. 3.50 - 4.00
Linalool, ex bois de rose lb. 4.50 - 6.85
ex lignaloe wood lb. 6.50 - 7.00
Linalyl acetate, ex bois de rose, bots lb. 4.35 - 7.20
ex petitgrain, bots lb. 5.10 - 6.35
Linden flowers with leaves, bls lb. .25 - .27
without leaves, bls lb. .24 - .26
Linseed oil, 34% bulk, Midwest mills ton. 59.50 - 60.00
Litharge, com'l. powd., bbls., c.l., shp't point, frt. alld lb. .19¾- —
l.c.l., same basis lb. .20¾- —
Lithium benzoate, dms lb. 1.65 - 1.70
Bromide, NF, bbls., works, frt. equald lb. 1.90 - —
Carbonate, NF, bbls., kgs lb. 1.10 - 1.15
Chloride, dms lb. 1.15 - 1.65
Citrate, NF, bbls., dms., kgs lb. 1.30 - 1.45
Fluoride, bbls. lb. 1.95 - —
Hydroxide, dms. lb. 1.15 - 1.25
Salicylate, dms. lb. 1.62 - 1.70
Lithopone, ordinary, bgs., c.l., ship't point lb. .06½- —
l.c.l., same basis lb. .06¾- .06¾
Titanated (high-strength), bgs., c.l. lb. .08¼- —
smaller lots lb. .08½- —
Lithopone prices, Pacific Coast, ¾c. per lb higher.
Liverwort leaves, bls. lb. .85 - .90
Lobelia herb, bls lb. .65 - .70
leaves, NF lb. .85 - 1.00
Lobeline sulphate, bots., works oz. 25.50 - 38.00
Logwood extract, crystals, No. 1, bbls., l.c.l. lb. .38½- —
No. 2, bbls., l.c.l. lb. .36½- —
liquid, No. 1, bbls., l.c.l. lb. .18½- —
No. 2, bbls., l.c.l. lb. .17¼- —
No. 3, bbls., l.c.l. lb. .17 - —
No. 4, bbls., l.c.l. lb. .16½- —
solid, No. 1, bxs., l.c.l. lb. .33 - —
No. 2, bxs., l.c.l. lb. .31 - —
No. 3, bxs., l.c.l. lb. .28½- —
No. 4, bxs., l.c.l. lb. .28 - —
No. 5, bxs., l.c.l. lb. .26½- —
No. 6, bxs., l.c.l. lb. .44½- .49¼
Lovage root, imp., bls lb. 1.20 Nom.
Lupulin, tins lb. 1.95 - 2.00
Lycopodium, cs lb. 1.90 - 2.50
Lysine hydrochloride, dextro-laevo. kilo. 145.00 - 149.00

M

Mace, Amboyna, bls lb. .78 - .79
Banda, No. 1, bls lb. .93 - .95
Siauw, No. 1, bls lb. .83 - .84
West Indian, bls lb. .72 - .73
broken, bls. lb. .65 - .66
Madder, Dutch, bgs lb. .29 - .32
Magnesia, calcined, tech., ctns., works lb. .32 - —
synth., rubber grade, ctns., works lb. .29 - —
USP, light ctns lb. .34 - —
heavy, bbls lb. .36 - —
Magnesium arsenate, bgs., cans, works lb. .20 - .30
Bromide, jars lb. .90 - 1.00
Carbonate, tech., bgs., c.l., frt. equald lb. .09 - —
l.c.l., frt. alld. lb. .10 - —
bbls., c.l., frt. equald lb. .10¼- —
l.c.l., frt. alld. lb. .11¼- —
kgs., c.l., frt. equald lb. .11½- —
l.c.l., frt. alld. lb. .12½- —
USP, bgs., c.l., frt. equald lb. .10¾- —
l.c.l., frt. alld. lb. .11¾- —
bbls., c.l., frt. equald lb. .11¼- —
l.c.l., frt. alld. lb. .12¼- —
kgs., c.l., frt. equald lb. .12½- —
l.c.l., frt. alld. lb. .13½- —
Magnesium carbonate is quoted frt. alld. to N. J. except to Atlantic, Burlington, Cape May, Cumberland, Glostershire, Ocean and Salem counties, and to Phila. county, Pa. Frt. equald. with N. Y. C. on all other destinations.
Chloride, anhyd., bbls., works lb. 12¼- —
flake, bbls., c.l., works ton. 40.00 - —
l.c.l., works ton. 44.00 - 46.00
Glycerophosphate, dms., works lb. 4.85 - —
Hydroxide, NF, medicinal, bbls., dms., kgs lb. .29 - .30
Hypophosphite, dms. lb. 1.60 - —
Laurate, bbls lb. .46 - .47
Metal, 98.8% ingots, cs., works lb. .20½- —
sticks, cs lb. .34 - .38
Oleate, precip., bbls lb. .40½- —
Oxide (see Magnesia, calcined).
Peroxide, 15%, dms., works lb. 1.00 - 1.03
Phosphate, tribasic, NF, bbls. lb. .75 - —
Silicate (see Talc).
Silicofluoride, bbls., works lb. .09 - .09¼
Stearate, ctns., 2,000 lbs. to c.l. lb. .40 - —
smaller lots lb. .41 - —
Sulphate (see Epsom salt).
Trisilicate, USP, dms., 1,000-lb. lots lb. .43 - —
100-lb. lots lb. .50 - —
Magnesite, chemical grade, bgs., c.l., mines, Calif. ton. 67.50 - —
dead-burnt, bulk, c.l., Chewalah, Wash. ton. 30.50 - —
Maleic anhydride, dms., c.l. lb. .30 - —
l.c.l. lb. .31 - —
Malva flowers, black, bls lb. 1.45 - 1.75
Blue, bls. lb. 1.00 - 1.25
Leaves, bls. lb. .40 - .42
Manaca root, bls lb. .49 - .50
Mandrake root, bls lb. .46 - .55
Manganese acetate, bbls. lb. .32 - —
Arsenate, bgs. lb. .12 - .12¼
Borate, tech., bbls lb. .23 - —
Carbonate, bbls lb. .19 - —
Chloride, anhyd., dms., works lb. .24 - —
Dioxide, African, battery, 84-87%, bbls., 28-40 tons, works. ton. 74.00 - —
smaller lots, works ton. 77.00 - 82.00
burlap bgs., c.l., works ton. 71.75 - —
l.c.l., works ton. 74.75 - 79.79
paper bgs., c.l., works ton. 70.00 - —
l.c.l., works ton. 73.00 - —
85-90%, bbls., c.l., works ton. 74.00 - —
smaller lots, works ton. 77.00 - 82.00
Manganese glycerophosphate, NF, fib. dms. lb. 4.15 - 4.25
Hydrate, bbls., dlvd lb. .26 - —
Hypophosphite, NF, dms lb. 2.00 - —
Linoleate, liquid, 4.35% Mn, dms. lb. .39¼- —
solid, precip., 8.2% Mn, bbls., lb. .41½- —
Metal, cs, dlvd. East lb. .30 - .32
Naphthenate, liquid, 6% Mn, dms., frt. alld lb. .22¾ - 23¼
Oleate, fused, bbls lb. .44¾- —
Resinate, fused, 3½% Mn, dms. lb. .20 - —
precip., dms. lb. .22½- —
Sulphate, fertilizer grade 65%, bgs., c.l., dlvd. S. E. ton. 60.00 - —
l.c.l., dlvd. S. E. ton. 67.00 - —
feed grade, 80%, bgs lb. .05¼- .07
75%, bgs. c.l., dlvd. S. E. ton. 68.50 - —
l.c.l., same basis ton. 75.50 - —
Tallate, liquid, 4% Mn, dms lb. No prices.
solid, 8% Mn, dms lb. No prices.
Mangrove bark, E. Africa, 38% tannin, c.l., ex dock ton. 72.00 Nom.
Manna, flake, large, cs. lb. 1.40 - 1.50
small, cs. lb. 1.00 - 1.10
Mannitol, com'l, dms., works lb. .40 - .43
reagent, 50-lb. dms., works lb. .85 - —
Marjoram, Argentine, bls lb. .14 Nom.
Chilean, bls. lb. .17½- .18
French, bls lb. .32 - .33
Matico leaves, bls lb. .25 - .28
Menadione, USP, bots., works gram. .10 - —
Menthol, natural, USP, Brazilian lb. 8.75 - 9.00
synthetic, tech., cns lb. 6.00 - 6.40
USP, laevo, cns lb. 8.60 - 9.25
Menthyl salicylate, tins lb. 4.25 - 4.35
Mercaptobenzo thiazole, 50-lb. bgs., 150-lb. containers, works, frt. alld., ton lots lb. .27 - —
less ton lots, same basis lb. .29 - —
Mercury, ammoniated (see White precipitate).
Bichloride (see Corrosive sublimate).
Bisulphate, dms. lb. 2.13 - 2.15
Chloride (see Calomel).
Cyanide, NF, cryst., powd lb. 3.27 - 3.32
Iodide, red, NF, dms lb. 4.32 - —
Yellow, NF, fib. dms lb. 4.42 - —
Metal (see Quicksilver).
Oxide, red, NF (see Red precipitate), yellow, tech. (see Yellow, mercury oxide), NF, fib. dms lb. 2.44 - 2.46
Mesityl oxide, dms., c.l., dlvd lb. .13 - —
l.c.l., dlvd lb. .13½- —
tanks, dlvd lb. .11½- —
Metaldehyde, dms., works lb. .78 - —
Metachloranilin, dms., works lb. .75 - —
Metacresol, 98%, dms., c.l., works lb. .55 - .80
l.c.l. lb. .56 - —
80-82%, dms., works lb. .35 - —
70-75%, dms., works lb. .30 - —
Metaparaisopropylphenol, dms., c.l. lb. .21 - —
l.c.l. lb. .22 - —
tanks lb. .20 - —
Metanitroparatoluidin, bbls lb. 1.28 - 1.33
Metaphenylenediamine, kgs lb. .76 - —
Metatoluidine, bbls., works lb. .80 - —
Metatolylenediamine, kgs lb. .77 - —
Methanol, natural, dms., c.l., frt. alld gal. .74 - .80
l.c.l., frt. alld gal. .77 - .85
tanks, frt. alld gal. .66 - 70
Prices on natural methanol W. of Miss 3c. higher.
Synthetic, eastern production, zone 1, dms., c.l., frt. alld. gal. .40 - —
l.c.l., frt. alld gal. .43 - —
tanks, frt. alld gal. .28 - —

Lime, Hydrated—Methyl Acetate

Methanol, synthetic eastern production, zone 2, dms., l.c.l., frt. alld gal. .47 - —
l.c.l., ex whse gal. .49½- —
tanks, frt. alld gal. .33 - —
Synthetic methanol zones are: Zones 1 is all continental U. S., E. of eastern boundaries of Ariz., Idaho, Mont., and Utah. Zone 2 is remainder of the U. S., west of above state boundaries, comprising Ariz., Calif., Idaho, Mont., Nev., Ore., Utah and Wash.
Texas production, Midwest and Gulf states, dms., c.l., works, frt. alld gal. .37½- —
tanks, frt. alld gal. .27 - —
West of Rockies, dms., c.l., frt. alld gal. .45 - —
tanks, frt. alld gal. .33 - —
Methenamine (see Hexamethylenetetramine).
Methionine, dextro-laevo, fib. dms., works, 50-lb. or more lb. 7.25 - —
1 to 49-lb. lots, works lb. 8.75 - —
Methyl abietate, non-ret. dms., c.l., dlvd., zone 1 lb. .17½- —
l.c.l., same basis lb. .18 - —
hydrogenated, non-ret. dms., c.l., dlvd., zone 1 lb. .17¾- —
l.c.l., same basis lb. .18¼- —
Zone 1 includes New England and Middle Atlantic states, Va., W. Va., N. C., Ohio., Ky., Mich., Ind., Ill., Wis., St. Paul and Minneapolis, Minn., St. Louis, Mo., Miss., Ala., Ga., Fla., S. C. and Tenn.
Acetate, dms., c.l., dlvd., N. Y. lb .08 - —
l.c.l., same basis lb. .08½- —



FROM ALKYD RESINS TO DE-ICING PAINTS

Nothing takes the place of Glycerine

Ask the man in the plant. He knows that the chemical properties of glycerine help build tough, durable alkyds and resin gums. He knows that he can count on its uniformity and ease of handling.

Ask the research man. He finds that glycerine fortifies many modern corrosion-proof coatings . . . that its plasticizing action adds flexibility to today's masking finishes . . . that its anti-freeze qualities are ideal for aircraft de-icing paints.

Ask any leader of the coatings industry—or almost *any* industry. He'll agree that for a combination of physical and chemical properties that no other product can equal . . . for well-proved performance in more than 1500 fields of application in modern industry—*Nothing takes the place of glycerine!*

GLYCERINE PRODUCERS' ASSOCIATION
295 Madison Avenue
NEW YORK 17, NEW YORK

Technical
GLYCERINE NEWS

NEW-TYPE RESIN. Description: pale, semi-solid made by interaction of glycerine with rosin fraction of tall oil. Properties: tacky, stable, unaffected by humidity changes, has solubilizing action on many materials. Uses: has potential applications in protective coatings, soap, adhesives, and synthetic rubbers. (R-1)

★ ★ ★

NEW METHOD DETERMINES GLYCERINE COLOR. A faster, more accurate method has been developed in the research laboratories of the Glycerine Producers' Association. The method, which utilizes the spectro-photometer, corrects defects of the old visual Lovibond method. (R-2)

★ ★ ★

APPROVED FIRE-RESISTANT DECORATIVE FINISH. Alkyd resins form the base for a new finish for interior decoration approved recently by the Bureau of Standards of Appeals of New York City. The coating is formed by spraying specially prepared fibers onto a surface treated with a fire-resistant adhesive. (R-3)

★ ★ ★

NEW CORK SUBSTITUTE. Glycerine is employed as a plasticizer to produce flexibility in a new cork substitute patented recently. The compound is claimed to have bulk density and resilience comparable to natural cork. (R-4)

★ ★ ★

ANTI-STICK COATING. Major problem in the use of bitumen-coated steel sheets in building trades is the adhesion of the tacky sheets to each other in storage. Answer to the problem may be a new anti-stick coating in which glycerine is an essential ingredient. (R-5)

GLYCERINE PRODUCERS' ASSOCIATION, DEPT. 6
295 MADISON AVENUE
NEW YORK 17, N. Y.
I should like to receive more information on the source of the items appearing in Technical Glycerine News. I have checked below those items which interest me.
☐ R-1 ☐ R-2 ☐ R-3 ☐ R-4 ☐ R-5
NAME .....
COMPANY .....
ADDRESS .....

MAR 28 1949 XUM

Methyl Acetoacetate—Nitrocellulose

Methyl acetoacetate, dms., c.l., works lb. .49½- —
l.c.l., same basis lb. .50 - —
tanks, works lb. .48 - —

Methyl acetoacetate prices frt. alld. W., ½c. higher.

Acetone, natural, group A, dms., extra, c.l., E. of Miss., frt. alld gal. .50 - .60
l.c.l., same basis gal. .57 - .67

Natural methyl acetone group A prices W. of Miss. 3c. per gal. higher.

Group B, dms., incl., E. Miss., frt. alld., any quantity gal. .50 - .60

synthetic, dms., c.l., works, frt. alld. E gal. .61½- —
frt. alld. W gal. .64 - —
l.c.l., works, frt. alld. E gal. .65 - —
frt. alld. W gal. .68½- —
tanks, works, frt. alld. E gal. .52 - —
frt. alld. W gal. .55½- —

Methyl acetone, synth., East. territory, is all States East of and including Colo., Mont., N. Mex. and Wyo. West territory, all States West of those four.

Alcohol (see Methanol).
Anthranilate, 500 lbs. or more lb. 2.10 - —
smaller lots lb. 2.20 - 3.00
Benzoate, cns lb. .55 - 1.20
Bromide, dealers, cns. lb. .50 - .52
cyls. lb. .46 - .59
Chloride, indust., cyl., works lb. .17 - —
tanks, multi-unit, works lb. .13 - —
single-unit, works lb. .10½- —
refrigerator mfrs., cyls., dlvd lb. .34 - —
other consumers or service men, cyls., dlvd lb. .42 - —
Methyl cinnamate, cns lb. 1.48 - 1.65
Formate, dms. lb. .89 - —
Heptin carbonate, bots. lb. 36.00 -58.00
Iodide, bots., cbys. lb. 3.00 - 4.85
Lactate, dms., l.c.l., works lb. .35 - —
Methacrylate, M-1, dms., works lb. .45 - —
cns, works lb. .48 - .58
P-1, cns., works lb. .60 - —
Parahydroxybenzoate, USP, bots. lb. 2.10 - 2.20
fib. dms. lb. 1.90 - 2.00
Salicylate, USP, dms., 500 lbs. lb. .40 - —
25-50 lbs. lb. .45 - —
Methylal, refined, 95%, dms., c.l. lb. .06 - —
l.c.l., works lb. .07 - —
tanks, works lb. .04½- —
Methylamyl acetate, dms., c.l., dlvd. lb. .14½- —
l.c.l., dlvd lb. .15 - —
tanks, dlvd lb. .13 - —
Ketone, dms., works lb. .70 - —
Methylcellulose, special vis., (4,000 cps.), fib. ctns., c.l., frt. alld. lb. .68 - —
2,000 lbs. and more, same basis lb. .70 - —
smaller lots, frt. alld. on 100 lbs. lb. .75 - .80
standard vis. (15-1,500 cps.), fib. ctns., c.l., frt. alld lb. .62 - —
2,000 lbs. and more, same basis lb. .63 - —
smaller lots, frt. alld. on 100 lbs. lb. .68 - .73
Methylene blue, USP, 100-lb. lots, kgs., frt. equald lb. 2.87 - —
smaller lots, kgs., same basis lb. 3.02 - 3.22
Chloride, indust., dms., c.l., dlvd. E lb. .12½- —
l.c.l., dlvd. E lb. .13½- —
tanks, dlvd. E lb. .11½- —
Methylethyl ketone, dms., dlvd lb. .11½- —
l.c.l., dlvd lb. .12 - —
tanks, dlvd lb. .10 - —
Methylhexyl ketone, tech., dms., works lb. .60 - —
Methylionone, A, cns lb. 6.55 - 8.80
D, cns lb. 7.50 - 9.35
prime, cns lb. 4.35 - 6.40
Methylisobutyl carbinol (see Carbinol, methylisobutyl).
Ketone, dms., c.l., dlvd lb. .14 - —
l.c.l., dlvd. lb. .14½- —
tanks, dlvd lb. .12½- —
Methylnaphthyl ketone, cns lb. 3.00 - 3.75
Methylparaben (see Methylparahydroxybenzoate).
Methylpentanediol, dms., works, dlvd. lb. .16½- —
l.c.l., works, dlvd lb. .17 - —
tanks, works, dlvd lb. .15 - —
Methylthionme chloride (see Methylene blue).
Mica, dry-grd., paint, plastic, 100 mesh, bgs., c.l., works lb. .03⅞- —
roofing, 20 to 80 mesh, works lb. .03⅜- —
wet-grd., biotite, bgs., c.l., works, frt. alld. E lb. .05½- —
l.c.l., ex whse. or frt. alld. E. lb. .06¼- —
extra fine, bgs., c.l., works, frt. alld. E lb. .05½- —
l.c.l., ex whse. or frt. alld. E lb. .06¼- —
paint or lacq., bgs., c.l., works, frt. alld. E lb. .07 - —
l.c.l., ex whse. or frt. alld. E lb. .07¾- —
rubber, bgs., c.l., works, frt. alld. E lb. .06¾- —
l.c.l., ex whse. or frt. alld. E lb. .07½- —
wallpaper, bgs., c.l., works, frt. alld. E lb. .07 - —
l.c.l., ex whse. or frt. alld. E lb. .07¾- —
white, extra fine, bgs., c.l., works, frt. alld. E lb. .07 - —
l.c.l., ex whse. or frt. alld. E lb. .07¾- —
Mica, wet-grd., W. of Miss. R., ½c. higher. W. of Rockies, 1c. higher.
Milk powder, skimmed, roller, bbls., c.l. lb. .10½- .12¾
spray, bbls., c.l. lb. .11 - .13¾
Whole, roller, bbls., c.l. lb. .28 - .36¾
spray, bbls., c.l. lb. .28½- .37¾
Sugar, edible, bbls., works, 30,000-lb. lots lb. .24 - —
2,000-lb. lots lb. .24¾- —
200-1,800-lb. lots lb. .25¼- —
USP, bbls., works, 3,000-lb. lots. lb. .26 - —
2,000-lb. lots lb. .26¾- —
200-1,800-lb. lots lb. .27¼- —
Molasses, blackstrap, tanks gal. .04 - .14
Molybdate orange (see Orange molybdate).
Mineral spirits (see Petroleum, mineral spirits).
Molybdenum metal, 90% Mo., powd., kgs lb. 2.60 - 3.00
pure, kgs., works, basis Mo. content lb. .95 - —
technical, kgs., works, basis Mo. content lb. .80 - —
Monochlorobenzene, dms., c.l., works, frt. equald lb. .06½- .08
l.c.l., works lb. .07 - .09
smaller containers, works lb. .09 - .12
tanks, works, frt. equald lb. .06 - .06½
Monoethanolamine, dms., c.l., frt. alld. E lb. .27 - —
l.c.l., same basis lb. .28 - —
tanks, same basis lb. .25½- —
Monoethylamine, dms., c.l., works, basis 100% lb. .22 - —
l.c.l., same basis lb. .23 - —
tanks, same basis lb. .20 - —
Monomethylamine, 25%-40%, dms., c.l., same basis lb. .35 - —
l.c.l., same basis lb. .36 - —
tanks, same basis lb. .31 - —
Monomethylanilin, dms., works lb. .70 - —
Monononylnaphthalene, c.l., ums., works lb. .14 - —
l.c.l., dms., works lb. .15 - —
tanks lb. .13 - —
Monosodium glutamate (see Sodium glutamate, monobasic).
Phosphate (see Sodium phosphate, monobasic).
Monotertiarybutylmetacresol, dms., c.l., works lb. .50 - —
l.c.l., works lb. .51 - —
tanks, works lb. .49 - —
Morphine, cns. oz. 12.35 -12.40
Acetate, cns. oz. 9.85 - 9.90
Hydrobromide, cns. oz. 9.80 - —
Hydrochloride, NF, cns oz. 9.90 - —
Sulphate, USP, cns oz. 9.90 - —
Morpholine, dms., c.l., works lb. .59½- —
l.c.l., works lb. .60 - —
tanks, works lb. .58 - —
smaller containers, works lb. .75 - —
Mountain ash berries, bgs lb. .75 - .76
Mullein flowers, cs. lb. 1.25 - 1.30
Leaves, bls. lb. .12 - .13
Musk, nat., Tonquin, grains, bots. oz. 25.00 -30.00
synthetic—Ambrette, 100 lbs lb. 5.40 - —
25 lbs. lb. 5.50 - —
5 lbs lb. 5.65 - —
Ketone, 100 lbs lb. 4.95 - —
25 lbs. lb. 5.05 - —
5 lbs lb. 5.20 - —
Xylol, 100 lbs lb. 1.60 - —
25 lbs. lb. 1.70 - —
5 lbs lb. 1.85 - —
Musk root, bls lb. No prices.
Mustard seed, Calif., brown lb. .22 - .23
Dutch, yellow, bgs lb. .15 - .15½
English, yellow, bgs lb. .14 - .14½
Montana, brown, bgs., source lb. .06½- .07
Oriental, bgs., source lb. .03½- .06
yellow, bgs., source lb. .11 - .11½
Washington, yellow, source, bgs lb. .11 - .11½
Myrobalans, J1, assorted, ex dock. ton. 61.00 -62.00
J2, ex dock ton. 53.00 -54.00

N

Naphtha, painters (see Petroleum naphtha, V. M. & P.).
Solvent (see S).
Naphthalene, dom., crude, 74°, bgs., bbls., frt. equald: lb. No prices.
tanks, same basis lb. .06 - .07¼
78°, bgs., c.l., wks., frt. equald. lb. .07 - —
l.c.l., same basis lb. .07¼- —
bbls., c.l., same basis lb. .071 - .08
l.c.l., same basis lb. .073⅝- .085
dms., c.l., same basis lb. .07½- —
l.c.l., same basis lb. .08 - —
tanks, same basis lb. .065 - .075
refined, industrial, bbls., c.l., frt. equald lb. .12 - —
bgs., c.l., same basis lb. .11½- —
tanks, same basis lb. .11 - —
balls, flakes, wholesalers, jobbers, 50-lb. cs., c.l., same basis lb. .14 - —
bbls., c.l., same basis, lb. .13¾- —
1-lb. pkgs., c.l., same basis lb. .15¼- —
Neocinchophen, USP, dms., works lb. 7.00 - 7.10
Nepheline syenite, glass, 24 mesh, bulk, Rochester, N. Y ton. 14.25 - —
pottery, 200 mesh, bulk, Rochester, N. Y ton. 18.25 - —
Nepheline syenite in bgs., $3 per ton higher than bulk.
Nerolin, cns lb. 2.00 - 2.25
Niacin (see Acid, nicotinic).
Niacinamide (see Nicotinamide).
Nickel acetate, bbls., dlvd lb. .50 - —
Carbonate, bbls., dlvd lb. .48 - .50
Chloride, bbls., dlvd lb. .23 - —
Cyanide, bots., dms lb. 1.75 - 2.00
Formate, bbls., ton lots, dlvd lb. .43½- —
Metal, electro cathodes, cs lb. .40 - —
Nitrate, bbls., works lb. .24½- .25⅛
Oxide, black, bbls lb. .42 - —
Sulphate, bgs., c.l., dlvd lb. .18 - —
l.c.l., dlvd lb. .18½- —
Nicotinamide, USP, dms., works kilo. 11.00 -11.30
Hydrochloride, dms., works kilo. 10.50 -10.80
Nicotine sulphate, 40%, 56 lb. dms., dealers, frt. alld. over 50 lbs. dm. 53.65 - —
tins, 10 lbs., dealers, frt. alld. on cases of 6 tin. 11.80 - —
Nikethamide, bots., cbys lb. 5.50 - 6.60
Nitercake, bulk, works ton. No stocks.
Nitrobenzene, dbl. dist., dms., c.l lb. .09 - .09⅛
l.c.l. lb. .10 - .11
tanks lb. .08 - .08⅛
Nitrocellulose, ester soluble, 30-35 cps., ¼, ½, 5-6, 15-20, 30-40, 60-80 and 125-175 secs., bbls., c.l., works, dry weight lb. .28 - —
l.c.l., same basis lb. .29 - .31
18-25 cps., bbls., c.l., same basis lb. .30 - —
l.c.l., same basis lb. .31 - .33
250-400 secs. and 600-1,000 secs., bbls., c.l., same basis lb. .32 - —
l.c.l., same basis lb. .33 - .35

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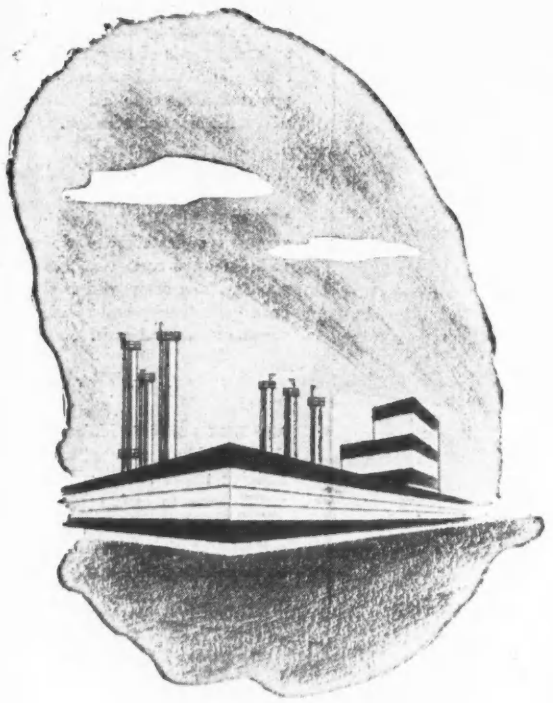
Tetraethylene Glycol

A Viscous polyethylene glycol with an Average Molecular Weight of 194.



Also available are:

Magnesium Chloride

Epsom Salt

Hydrochloric Acid

Monochlorobenzene

Sodium Sulfide

THE DOW CHEMICAL COMPANY
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TRI-SURE PRODUCTS LIMITED, ST. CATHARINES, ONTARIO, CANADA

Tri-Sure
Reg. U. S. Pat. Off.
CLOSURES

Nitrocellulose, Spirit-Soluble—Oil, Originaum

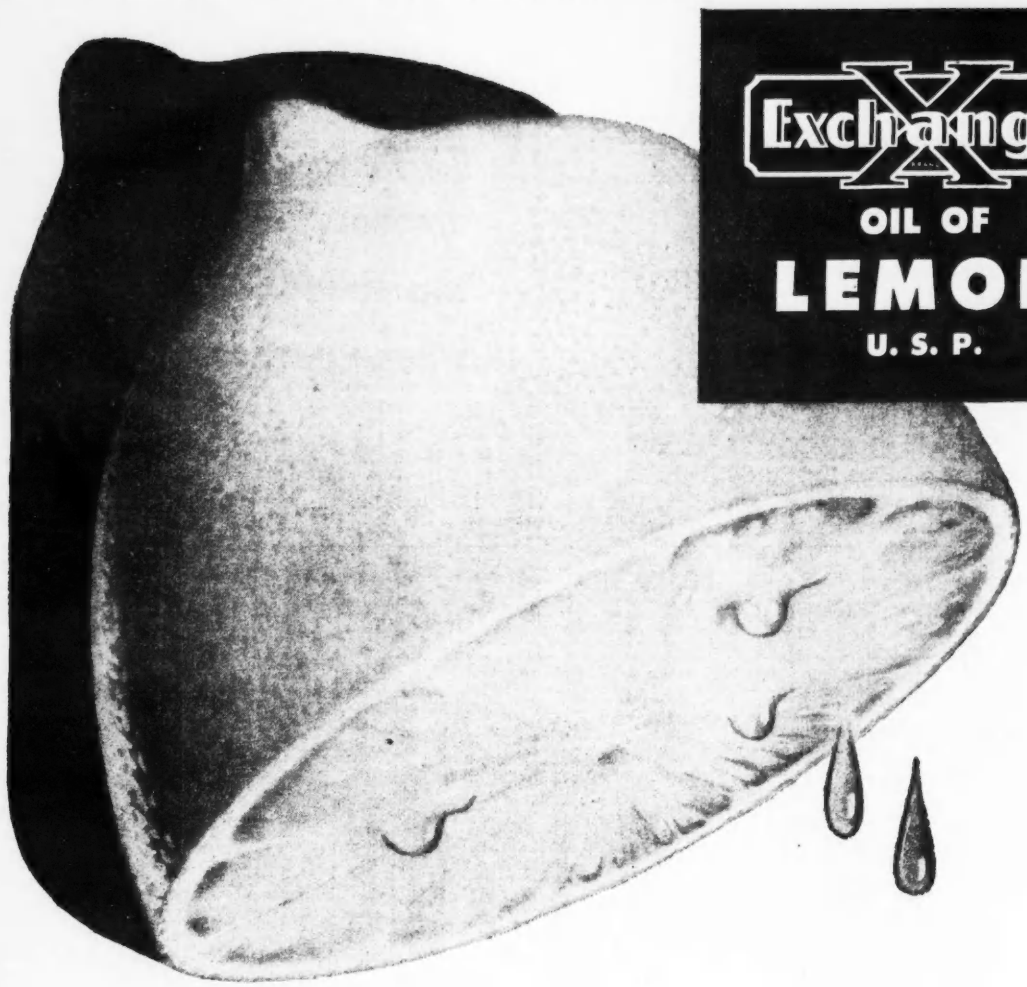
Nitrocellulose, spirit-soluble, 30-35 cps., ¼, ½, 5-6 and 40-50 secs., bbls., c.l., same basis lb. .33 - —
l.c.l., same basis lb. .34 - .36

Denatured alcohol used in the manufacture of nitrocellulose is charged extra. Drums extra, but returnable.

Nitroethane, dms., works lb. .30 - —
Nitrogen solution, tanks, works, N ton.120.00 -137.16
Nitrogenous process tankage, bulk, works, ammo unit-ton. 3.50 - 4.00
Sewage sludge, bulk, works, unit ton. 3.25 + .40
Nitromethane, dms., l.c.l., works lb. .30 - —
Nitropropane, 1, dms., works lb. .30 - —
2, dms., works lb. .30 - —
Nutgalls, Aleppo, bgs lb. .50 - —
Chinese, bgs. lb. .40 - —
Istrian, bgs lb. .29 - —
Nutmeg, East Indian, bgs lb. .41 - .42
futures, bgs. lb. .41 - .42
West Indian, bgs lb. .35 - .36
futures lb. .35 - .36
Nux vomica, bls lb. .08 - .09
powdered, bbls., bxs lb. .11 - .12

O

Oakbark extract, 25% tannin, bbls., c.l., works lb. No stocks
Octane, 100°-140° C, industrial grade, group 3, dms., c.l. gal. .19 - —
l.c.l. gal. .21 - .60
tanks gal. .15½- —
10° C, Bayonne, N. J., tanks gal. .16 - —
Octanol (see Alcohol, amylhexyl).
Oil, abies siberica, cns lb. 2.65 - 3.10
Almond, artificial, bitter, (see Benzaldehyde).
natural, bitter, F.P.A., bots lb. 4.45 - 5.00
USP, bots. lb. 4.90 - —
Sweet, dms., cns lb. .80 - .95
Angelica root, bots lb.120.00 -190.00
Seed, bots lb.80.00 -100.00
Anilin (see A).
Anise, USP, Chinese, dms lb. .85 - 1.00
Russian, cns lb. 3.50 - 3.75
Apricot kernel, tech. (see Oil, persic). USP (see Oil, persic).
Avocado, cns., dms lb. 1.00 - 1.10
Babassu, crude, tankcars lb. .17¼ Nom.
Bay, NF, Puerto Rican, 50-55%, cns lb. 1.20 - 1.50
55-60%, cns lb. 1.20 - 1.95
60-65%, cns lb. 2.50 - —
West Indian, 50-55%, cns lb. 1.20 - 1.65
Bergamot, artif., cns lb. 2.50 - 4.25
natural, Italian, cns lb. 4.05 - 4.50
Birch (see Oil, sweet birch).
Birchtar, crude, cns lb. .95 - 1.76
rectified, cns. lb. 4.25 - —
Bois de rose, Brazil, cns lb. 2.85 - 4.75
Mexican (see Oil, lignaloe wood).
Bone, dms., works gal. .65 - 70
Cajeput, tech., dms lb. 1.70 - 2.00
redistilled, USP, cns lb. 2.20 - 4.50
Calamus, cns lb.20.00 -28.00
Camphor, natural, white, cns lb. .30 - .45
synthetic, dms lb. .15 - .35
Cananga, native, cns lb. 2.00 - 3.00
rectified, cns. lb. 2.90 - 3.65
Capsicum (see Capsicum oleoresin).
Caraway, NF, cns lb. 5.00 - 6.50
Cardamom, NF, bots lb.35.00 -40.00
Cassia, USP, cns lb. 1.85 - 2.50
Oil, castor, blown, dms lb. .21½- .22
cold-pressed, USP, ret. dms., c.l. lb. .19½- —
l.c.l. lb. .20 - —
tanks lb. .18½- —
dehydrated, bodied, dms., c.l lb. .23¼- —
l.c.l. lb. .23¾- —
tanks lb. .22¼- —
unbodied, dms., c.l. lb. .22¼- —
l.c.l. lb. .22¾- —
tanks lb. .21¼- —
hydrogenated, dms., c.l., works. lb. .30 - —
l.c.l., same basis lb. .31 - —
No. 3, tech., ret. dms., c.l. lb. .18½- —
l.c.l. lb. .19 - —
tanks lb. .17½- —
sulphonated, 50% (48% fat), dms lb. .10 - .12
75% (60-62% fat), dms lb. .16 - .18
Cedarleaf, USP, cns., dms lb. 1.95 - 2.85
Cedarwood, cns. lb. .45 - .55
dms. lb. .35 - .50
Celeryseed, bots lb.14.00 -16.50
Chaulmoogra, NF, cns., dms lb. .56 - —
Chinawood (see Oil, tung).
Cinnamon bark, bots lb.33.00 -73.00
Leaf, Ceylon lb. 1.50 - 1.75
Seychelle lb. 1.20 - —
Citronella, Ceylon, cns lb. .75 - 1.03
Java, cns lb. 1.25 - 1.45
Clove, USP, from Madagascar buds, cns., dms lb. 1.25 - 1.55
from Zanzibar buds, cns lb. 1.60 - 1.70
Coconut, crude, tanks, Atlantic ports lb. .14¼- —
Pac. coast lb. .13¼- —
refined, Cochin type, tax incl., dms., l.c.l. lb . .22 - —
deodorized, tax incl., dms., l.c.l lb. .23 - —
Cod, Newfoundland, dms lb. .20 - .22
Codliver, USP, dms gal. 2.40 - 2.45
Coriander, bots lb.31.00 -35.00
Oil, corn, crude, tanks, works lb. .10¾- —
foots, acid, 95%, tanks, dlvd. E lb. .03 Nom.
raw, 50%, tanks, dlvd. E lb. .01½ Nom.
refined, tanks, mills lb. .13½- —
dms., New York lb. .16½ Nom.
Costus, bots oz.30.00 - —
Cottonseed, crude, tanks, works lb. .10½- —
foots, acid 95%, tanks, dlvd. E lb. .03 Nom.
raw, 50%, tanks, dlvd. E lb. .01½ Nom.
refined, dms lb. .16¼- —
tankcars lb. .14¼- .14½
Creosote (see Creosote, coaltar)
Croton, NF, cns lb. 4.75 5.50
Crude (see Petroleum, crude).
Cubeb, cns lb. 7.00 -10.00
Cumin, bots. lb. 6.25 -11.50
Cypress, bots lb.11.00 -15.00
Degras (see D).
Dillseed, bots lb. 9.00 9.50
Dillweed, bots. lb. 8.25 - 9.25
Dip (see D).
Erigeron, cns lb. 5.00 - 5.25
Eucalyptus, rectified, USP, 80-90%, cns. lb. .77 - 1.45
70-80%, cns. lb. .66 - 1.30
Fennel, sweet, cns. lb. 3.05 - 4.50
Fir, Canada, cns lb. 1.90 - 2.35
Fishliver, concentrating or feed, 6,000 to 12,000 A units, dms 1,000,000 units. .26½- —
20,000 to 80,000 A units, dms 1,000,000 units. .29 - .34
pharmaceutical, 50,000 to 125,000 A units, dms., 1,000,000 units. .35 - .41
pharmaceutical or food, 200,000 A units, dms 1,000,000 units. .45 - —
concentrate, 100,000 A units, dms 1,000,000 units. .40 - —
200,000 A units, dms. 1,000,000 units. .45 - —
500,000 A units, dms. 1,000,000 units. .53 - —
1,000,000 A units, dms. 1,000,000 units. .55 - —
Fuel (see Petroleum fuel oil).
Fusel (see F).
Garlic, pure, bots oz. 9.25 - 9.50
Gaultheria (see Oil, wintergreen).
Geranum, Algerian, cns lb. 9.50 -12.00
Bourbon, cns. lb. 9.50 -11.25
Turkish (see Oil, palmarosa).
Ginger, dist., bots lb.10.00 -11.00
Grapefruit lb. .85 - 1.25
Grease, No. 1, dms lb. .12½- .13
extra, winter, strained, dms lb. .13½- .14
prime, burning, dms lb. .14½- .15
Guaiacwood, cns lb. 1.85 - 2.15
Hemlock, cns. lb. 1.95 - 2.75
Herring, crude, tanks, Pac. coast. lb. No prices.
Juniper berry, NF VIII, bots lb. 3.00 - 7.00
twice rectified lb. 4.75 - 5.00
Tar, USP (see Juniper tar).
Wood, tech., cns lb. .65 - 1.00
Lard (see Oil, grease).
Laurel, bots lb. 9.75 12.25
Lavandin, cns. lb. 1.40 - 3.75
Lavender flower, French, 38-42% ester, cns lb. 3.50 - 4.35
30-32% ester, cns lb. 2.50 - 3.10
Spike, Spanish, cns lb. 1.00 - 1.05
Lemon, natural, USP, Calif., cns. lb. 2.85 - 3.00
Messina lb. 3.25 - 5.00
terpeneless, bots lb.32.00 -65.00
Lemongrass, cns., dms lb. 1.60 - 1.90
Lignaloe seed, Mexican, cns lb. 4.50 - 4.80
Wood, Brazilian (see Oil, bois de rose).
Mexican, cns lb. 2.75 - 5.20
Lime, distilled, Mexican, cns lb. 4.25 - 5.00
West Indian, cns lb. 4.50 - 6.00
expressed, West Indian, cns lb. 6.25 - 8.00
terpeneless, bot lb.35.00 -53.00
Linseed, raw, dms., c.l. lb. .2880- —
l.c.l. lb. .2940- .2980
tankcars lb. .2760- —
tankwagon lb. .2790- —
Boiled linseed oil .007 higher than raw.
Lubricating, at refinery, ex tax, Group 3, bright stock, 150-160 vis., 10-25 p.p. tanks. gal. .285 - —
neutral, 300 vis., No. 3, col., 0.10 pour, tanks gal. .21 - .22
200 vis., No. 3, col., 15-25 pour, tanks gal. .18 - .19
145-155 vis., No. 3, color, 10-25 pour, tanks gal. .285 - —
Penna., W, cylinder, 600-680 flash, tanks gal. .33 - .38
600-650 steam refd., tanks. gal. .37 - —
neutral, 70°F, No. 3 color, 150 vis., 25 pour, tanks gal. .37 - .39
200 vis., 25 pour, tanks. gal. .39 - .41
South Texas, neutral, pale 200 vis., 2¼-4 pour, tanks. gal. .11 - .12
red. 200 vis., 4-6½ pour, tanks. gal. .11 - .12½
Mace, dist., cns., dms lb. 4.00 - 5.35
Mandarin, Brazilian, cns lb. 4.25 - 8.40
Italian, cns lb. 8.75 - 9.25
Menhaden, crude, tanks, Balto lb. .10 Nom.
refined, alkali, dms lb. .1620- .1660
kettle-bodied, dms lb. .1820- .1860
light-pressed, dms lb. .1520- .1560
tanks lb. .14 - —
Mineral, white (see Oil, white, mineral).
Mirbane (see Nitrobenzene).
Mustard, synthetic, USP, cns lb. 1.40 - 1.70
Seed, expressed, dms lb. .23 - .23½
Neatsfoot, 15°, dms lb. .34 - —
20°, dms. lb. .33 - —
30°, dms. lb. .29 - —
Neroli, French, bots lb.75.00 -390.00
Haitian, bots lb.175.00 -200.00
Niaouli, cns lb. 2.85 - 3.25
Nutmeg, dist., East Indian, cns., dms lb. 4.00 - 5.35
West Indian, cns., dms lb. 4.25 - 4.65
Ocotea cymbarum, dms lb. .50 - .60
Oiticica, liquid, dms., c.l. lb. .16 Nom.
l.c.l. lb. .16 - .16½
tanks lb. .16 Nom.
Oleo, oil, extra, tres lb. .15 Nom.
Olibanum, bots lb. 4.50 - 6.25
extra fine lb. 6.25 -10.50
Olive, denat., dms gal. 3.25 - 3.35
edible, Calif., dms lb. 3.85 Nom.
Spanish, dms., duty paid gal. 4.35 - 4.45
Moroccan, dms., same basis. gal. 4.05 - 4.10
foots, dms lb. .24½- .25
sulphonated, 50% (40% fat), dms., c.l. lb. No stocks.
l.c.l. lb. No stocks.
75% (62% fat), dms., c.l. lb. No stocks.
l.c.l. lb. No stocks.
Orange, sweet, natural, dist., cns., lb. .60 - 1.00
expressed, USP, Brazilian, cns. lb. .85 - 1.25
Calif., cns lb. .70 - 1.75
Florida, cns., dms lb. .65 - .80
Messina, coppers lb. 3.25 - 3.35
West Indian, cns lb. 2.25 - 3.75
sesquiterpeneless, bots lb.55.00 -135.00
Origanum, Spanish, cs lb. 2.40 - 3.50



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CALIFORNIA FRUIT GROWERS EXCHANGE
PRODUCTS DEPARTMENT, ONTARIO, CALIF.

Producing Plant:
EXCHANGE LEMON PRODUCTS CO., CORONA, CALIF.

Oil, palm, Congo, dms	lb.	.19½	.20
tankcars	lb.	.18	.18¼
Palmarosa, cns	lb.	6.50	9.00
Palmkernel, crude, bulk, c.i.f. NY	lb.	No prices.	
Paraffin, pale 100-110 vis. at 100° F. tanks, East Coast refinery	gal.	.11½	—
Patchouli, dms	lb.	6.00	6.50
Peach kernel, USP (see Oil, persic).			
Peanut, crude, tanks, works	lb.	.10⅞	—
foots, acid, 95%, tanks, dlvd. E	lb.	.03	Nom.
raw, 50%, tanks, dlvd. E	lb.	.01½	Nom.
refined, tanks, dlvd. E	lb.	.15½	—
drums	lb.	.16¼	.16½
Pennyroyal, USP, dom., dms., cns	lb.	No stocks.	
imported, cns.	lb	2.30	2.55
Peppermint, natural, dms	lb.	6.50	7.95
redist., USP, dms	lb.	6.75	8.50
Persic, USP, dms	lb.	.45	.56
Perilla, crude, dms	lb	No stocks.	
Petitgrain, Paraguay, cns	lb.	2.75	4.50
Pimento berry, cms	lb.	4.25	6.50
leaf, cns.	lb.	1.50	3.25
Pine, dest.-dist., dms., incl., c.l., works, South	gal.	60	69
l.c.l., works, South	gal.	61	70
dms., incl., c.l., works, South	lb.	.07½	—
l.c.l., works, South	lb.	.08	—
ex whse., N. Y. C.	gal.	.70	—
ex whse., N. Y. C.	lb.	.09½	—
tanks, works, South	gal.	.60	—
tanks, works, South	lb.	.062	—
steam-dist., dms., ex whse., East	lb.	.095	—
non-ret. dms., incl., l.c.l., ex whse., N. Y. C.	gal.	.86	—
Pineneedle, Siberian (See oil, abies siberica).			
Putty, petroleum, heavy, dms	gal.	.18	—
tankwagon	gal.	.15½	—
light, dms	gal.	.16½	—
tankwagon	gal.	.12½	—
Rapeseed, tankcars	lb.	.24	Nom.
Red, single dist., dms	lb.	.14	.15
tanks	lb.	.12¾	—
saponified, dms.	lb.	.15¾	.14¾
double dist., dms	lb.	.16½	.17½
tanks	lb.	.15¼	—
Rose, natural, Bulgarian, coppers.	oz.	25.00	38.00
Rosemary, Spanish, tech., cns., dms	lb.	.75	1.50
USP, cns., dms	lb.	1.00	1.60
Rosin, first rectified, dms	gal.	.66	—
2d rectified, dms	gal.	.68	—
3d rectified, dms	gal.	.78	—
Rue, bots	lb.	3.25	5.00
Sage, clary, bots.	lb.	14.50	16.00
Dalmatian, cns.	lb.	2.80	3.10
Spanish, cns.	lb.	1.70	3.50
Sandalwood, NF, cns	lb.	13.75	16.00
Sardine, crude, tanks, Pac. coast.	lb.	.10	Nom.
refined, alkali, dms	lb.	.1620	.1660
kettle-bodied, dms	lb.	.1320	.1360
light-pressed, dms	lb.	.1520	.1560
tanks	lb.	.14	—
Sassafras, artificial	lb.	.45	.55
natural, Brazilian (see Oil, ocotea cymbarum).			
domestic, USP XII, cns., dms.	lb.	1.80	2.30
Savin, cns	lb.	3.00	3.25
Savory, cns	lb.	2.00	—
Seal, No. 1, tanks, U. S. ports	lb.	No prices.	
Sesame, tanks	lb.	No prices.	
Shingle stain, bbls., c.l., works	gal.	.2185	—
l.c.l., works	gal.	.25	.29
tanks, works	gal.	.15	.16
Snakeroot, Canada, cns	lb.	18.75	19.75
Soybean, crude, tanks, mills	lb.	.09¾	.10
foots, acid, 95%, tanks, dlvd. E. dlvd. E	lb.	.03	Nom.
raw, 50%, tanks, dlvd. E	lb.	.011½	Nom.
refined, alkali, dms., c.l.	lb.	.1455	—
l.c.l.	lb.	.1510	.1550
tanks	lb.	.1335	—
clarified, dms., c.l.	lb.	.1335	—
l.c.l.	lb.	.1390	.1430
tanks	lb.	.1215	—
winterized, refined, tankcars, dlvd. East	lb.	.13	.13¼
drums	lb.	.14½	—
Spearmint, dms.	lb.	4.30	4.75
Sperm, bleached winter 45° tankcars	lb.	.2150	—
drums	lb.	.2220	.2270
natural winter 45°, tankcars	lb.	.20	—
drums	lb.	.21	.21½
Spruce, cns., dms	lb.	1.95	2.75
Sunflower-seed, tmp., refined, tanks	lb.	No prices.	
semi-refined, tanks	lb.	No prices.	
Sweet birch, Northern, cns	lb.	5.00	8.00
Southern, cns.	lb.	1.95	3.65
Tall, crude, tanks, works	ton.	40.00	—
refined, dms., c.l., works	lb.	.06¾	—
l.c.l., works	lb.	.07	—
tanks, works	lb.	.05¾	—
Tallow, acidless, dms	lb.	.10	.10½
Tansy, cns	lb.	9.00	14.00
Tar, pine, com'l, dms, incl., c.l., works, South	gal.	.41	.43½
l.c.l., works, South	gal.	.43	.45½
whse., N.Y.C.	gal.	.52¼	.54¾
tanks, works, South	gal.	.32	.34½
rectified, NF, l.c.l., dms., incl., works, South	gal.	.60	—
Tar acid (see T).			
Teaseed, dms	lb.	.24	—
Theobroma (see Cocoa butter).			
Thyme, NF, red, cns	lb.	2.15	3.35
white, cns.	lb.	2.40	3.60
technical, white, cns	lb.	.35	1.00
Tung, dms., c.l.	lb.	.21½	—
l.c.l.	lb.	.21½	—
tanks	lb.	.19½	—
Turkey red (see Oil, castor, sulphonated).			
Turpentine, rectified, NF, cns., dms	lb.	.30	.53
Vetiver, Bourbon, cns	lb.	11.75	14.00
Haitian	lb.	10.50	13.50
Whale, ref., natural, dms	lb.	No stocks.	
Winter-bleached, dms	lb.	No stocks.	
Wheat germ, dms	gal.	10.00	13.50
White mineral, tech., 50 vis., non-ret. dms., c.l., San Francisco	gal.	.51½	—
l.c.l., S.F.	gal.	.53½	.56½
50-65 vis., dms., c.l., N. Y.	gal.	.49½	—
l.c.l., N. Y.	gal.	.52½	.56½
65-75 vis., dms., c.l., N. Y.	gal.	.49½	—
l.c.l., N. Y.	gal.	.52½	.56½
70 vis., non-ret. dms., c.l., S.F.	gal.	.51½	—
l.c.l., S. F.	gal.	.53½	.56½
USP, 80-90 vis., dms., c.l., N. Y.	gal.	.53	—
l.c.l., N. Y.	gal.	.56	.60
83 vis., non-ret. dms., c.l., S. F.	gal.	.51½	—
l.c.l., S. F.	gal.	.53½	.56½
100 vis., non-ret. dms., c.l., S. F.	gal.	.59	—
l.c.l., S. F.	gal.	.61	.64
125-135 vis., dms., c.l., N. Y.	gal.	.61	—
l.c.l., N. Y.	gal.	.64	.68
143 vis., non-ret. dms., c.l., S. F.	gal.	.68	—
l.c.l., S. F.	gal.	.70	.76
Oil, white mineral, USP, 145-155 vis., dms., c.l., N. Y.	gal.	.64	—
l.c.l., N. Y.	gal.	.67	.71
175-185 vis., dms., c.l., N. Y.	gal.	.65½	—
l.c.l., N. Y.	gal.	.68½	.72½
180 vis., non-ret. dms., c.l., S. F.	gal.	.70	—
l.c.l., S. F.	gal.	.72	.75
200-210 vis., dms., c.l., N. Y.	gal.	.69	—
l.c.l., N. Y.	gal.	.72	.76
335-345 vis., dms., c.l., N. Y.	gal.	.75	—
l.c.l., N. Y.	gal.	.78	.82
340 vis., non-ret. dms., c.l., S. F.	gal.	.83	—
l.c.l., S. F.	gal.	.85	.88
Wintergreen, nat., Northern, cns.	lb.	8.75	14.25
Southern, cns	lb.	3.65	5.60
synthetic (see Methyl salicylate)			
Wood (see Oil, tung).			
Wormseed, NF, cns	lb.	3.25	3.75
Wormwood, cns.	lb.	6.65	13.50
Ylang-ylang, Bourbon, extra, bots.	lb.	12.00	22.50
Bourbon, bots	lb.	8.50	8.75
Madagascar, bots	lb.	7.25	7.50
Olein, crude (see Oil, red).			
low titre, dms	lb.	.17	.18
tankcars	lb.	.14¾	—
white, dms	lb.	.16½	.17½
tankcars	lb.	.15¼	—
Oleostearin, bbls	lb.	13	Nom.
Olivine, aggregate, c.l., mines	ton.	7.00	9.50
crushed, 8 mesh, bulk, c.l., works.	ton.	10.00	—
paper, bgs., c.l., works	ton.	12.00	—
Opium, USP, cns.	lb.	19.20	19.45
gran., USP, cns.	lb.	21.65	21.90
powd., USP, cns.	lb.	21.65	21.90
Orange, cadmium lithopone, bbls., frt. alld. E. of Rockies	lb.	1.10	—
Chrome, CP, bbls., dlvd. N. of Tenn. and N. C., E. of Miss. R., includ. Davenport, Tenn. and N. C., E. of Minneapolis, Rock Island, St. Louis, St. Paul, contracts	lb.	.33	—

Chrome orange prices are ½c. higher, dlvd. Ala., Fla., Ga., La. (Shreveport); 1½c. Miss., N. C., S. C., Tenn., Dallas and Ft. Worth, Tex.; 1½c. El Paso, Tex.; 2c. Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph; 1.6c. higher dlvd. Pac. Coast; for Denver, Pueblo, Salt Lake City, Wichita, prices are equalized with Chicago.

Dinitroanilin toner	lb.	1.15	—
Mineral, American, bbls., l.c.l., ship't point, frt. alld	lb.	.2410	—
Molybdate	lb.	.44½	—
Persian, bbls	lb.	.30	.45
Orange flowers, bls	lb.	.40	.45
Orange peel, bitter, Haitian, bls	lb.	.13	.15
Sweet, bls	lb.	.14	.16
Oregano, Mexican, bgs	lb.	.14½	.15
Portuguese, bgs	lb.	.20	.20½
Sicilian, bgs.	lb.	.15	.15½
Orris root, Florentine, bls.	lb.	.26	.27
powdered, bbls., bxs.	lb.	.30	.31
Verona, bls	lb.	.18	.19
powdered, bbls., bxs	lb.	.22	.23
Orthoaminobiphenyl, dms., c.l., works	lb.	.32½	—
l.c.l., same basis	lb.	.33	—
tanks, same basis	lb.	.31	—
Orthoamylphenol, dms., l.c.l., works.	lb.	.42	—

Oil, Palm—Orthotoluidin

Orthoanisidin, bbls	lb.	.80	—
Orthochloroanilin, dms., 10,000 lbs. or more	lb.	.60	—
smaller lots	lb.	.62	.67
Orthochloroparanitroanilin, dms., works	lb.	.65½	.81
Orthochlorophenol, dms	lb.	.26	—
Orthocresol, pure, 30° dms., c.l., works	lb.	.26	.33
l.c.l., works	lb.	.26½	.33½
tech., 20°, dms., c.l., works	lb.	.24½	—
l.c.l.	lb.	.25	—
29°-30°, dms., c.l., works	lb.	.25	.33
l.c.l., works	lb.	.25½	.33½
25°-27°, dms., c.l., works	lb.	.22¾	—
l.c.l., same basis	lb.	.23¼	—
tanks, same basis	lb.	.22	—
Orthodichlorobenzene, cns., 50-lb. 100-lb.	lb.	.12½	—
dms., c.l., works, frt. alld. E. of Rockies	lb.	.11½	—
l.c.l., same basis	lb.	.08½	—
tanks, same basis	lb.	.09½	—
Orthodichlorobenzene prices W of Rockies lc. per lb. higher.	lb.	.07	—
Orthoisopropyl N-phenylcarbanate (see IPC).			
Orthoisopropylphenol, dms., c.l.	lb.	.29	—
l.c.l.	lb.	.30	—
tanks	lb.	.28	—
Orthonitroanilin, dms	lb.	.50	.53
Orthonitrochlorobenzene, dms.	lb.	.17	.18
Orthonitrobiphenyl, tech., dms., c.l., works	lb.	.19½	—
l.c.l., works	lb.	.20	—
tanks, works	lb.	.18	—
Orthonitroparachlorophenol, cns	lb.	.75	—
Orthonitrophenol, dms	lb.	.66	.77
Orthonitrotoluene, dms.	lb.	.12	—
Orthophenetidin, dms., works	lb.	.90	—
Orthotoluidin, dms	lb.	.18	.20

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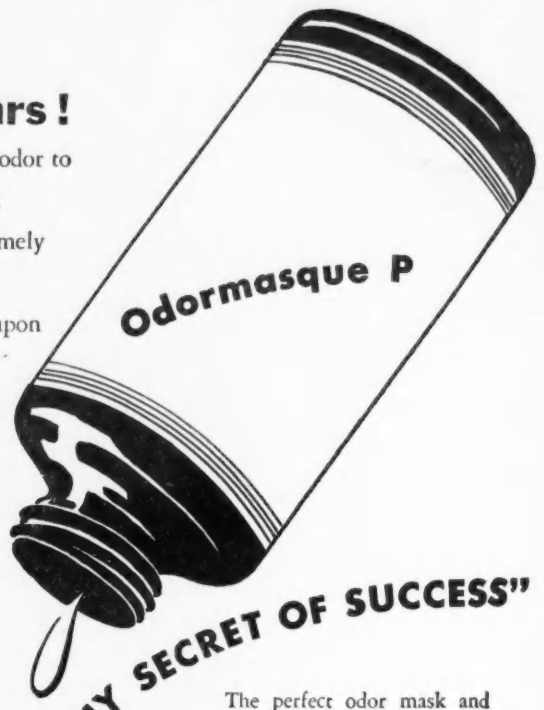

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Orthotoluidin—Petroleum, Lacquer Diluent

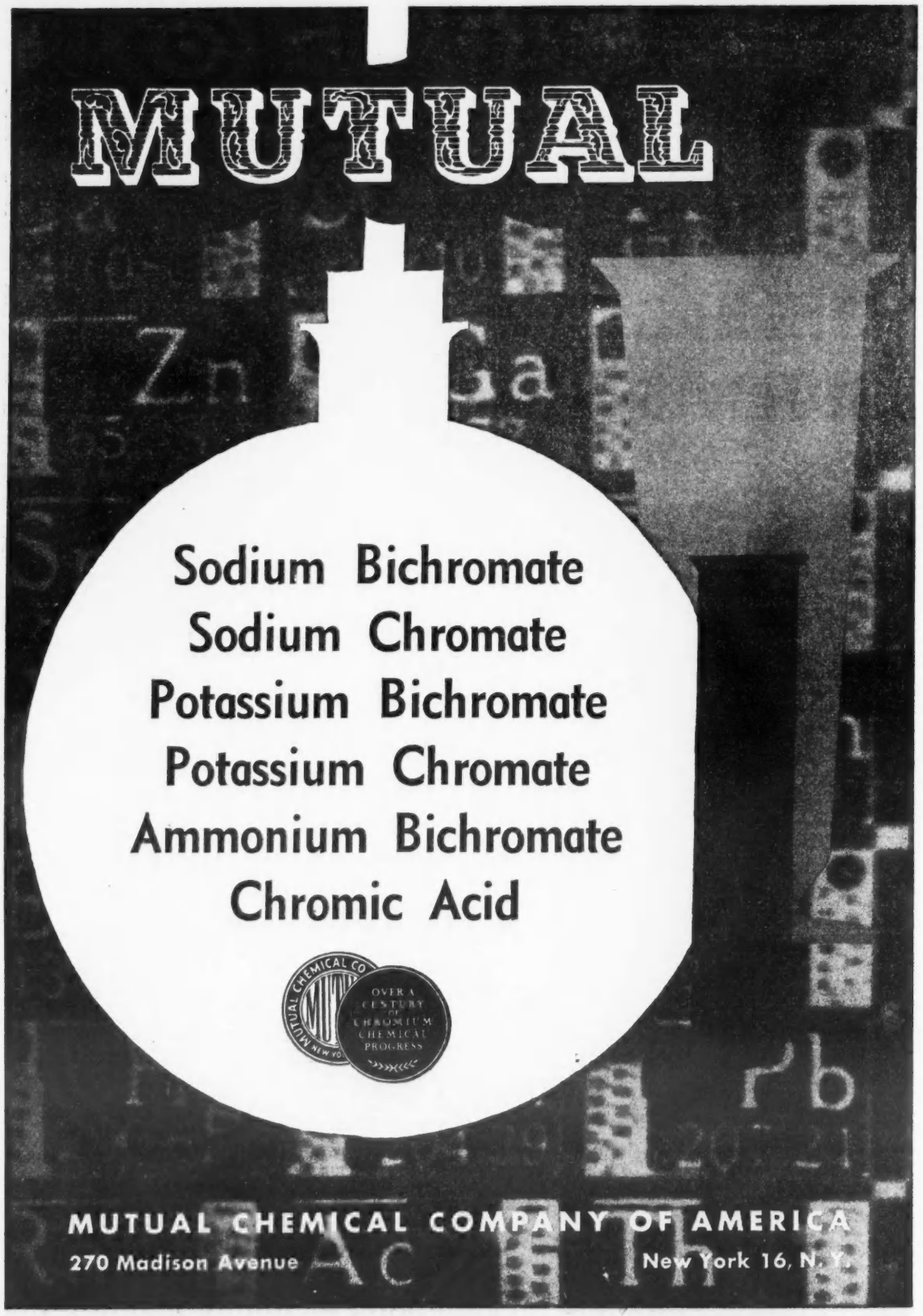
Orthotolidin, distilled, kgs. lb. 1.10 - —
Osage orange crystals, bbls., l.c.l. lb. .33½- —
extract, liquid, bbls., l.c.l. lb. .15½- —
Ouabaine, USP, bots. gram. 3.00 - 4.00
Oxyquinolin sulphate, cns., 100 lbs. works lb. 5.00 - —
smaller lots, works lb. 5.10 - 5.25

P

Pancreas substance, assay 1:75 lb. 5.75 - 6.25
Pancreatin, USP lb. 2.50 - 3.00
Panthenol, bots., works, frt. adjust. kilo. 80.00 - —
Papain, powd., NF, cs lb. 3.60 - 4.50
Papaverine, natural or synthetic, hydrochloride, USP, cns., 1,000-oz. lots oz. 5.00 - —
smaller lots oz. 5.05 - 5.20
Sulphate, cns oz. 7.10 - 7.35
Paprika, Chilean, bgs lb. .22 - .23
Portuguese, bgs lb. .33 - .34
Spanish, bgs lb. .41 - .43
Para-anisidin, dms., works lb. .80 - —
Parachlorophenol, dms., c.l., works. lb. .20 - .28
l.c.l., works lb. .28 - .29
Parachloroanilin, dms., frt. alld. E. Miss. lb. .70 - —
Parachloro-orthonitroanilin, dms. lb. No stocks.
Paracresol, 98%, dms., works lb. .50 - .65
92%-94%, dms., works lb. .47 - —
Paracymene, dms., works, 50 gals. or more gal. 2.50 - —
smaller quantities gal. 3.00 - —
Paradibromobenzene, bgs., 500-lb. lots, works lb. .45 - —
Paradichlorobenzene, dms., c.l., works lb. .11 - —
l.c.l., same basis lb. .12½- .14
Paraffin, crude, scale, white or yellow, 119-121 ASTM, bbls., c.l., refinery lb. No prices.
121-123 ASTM, bbls., c.l., ref'y lb. No prices.
126-128 ASTM, bbls., c.l., ref'y lb. No prices.
fully ref'd, slabs, 120-122 ASTM, loose, c.l., ref'y lb. .0690- —
122-124 ASTM, loose, c.l., ref'y. lb. .07 - —
125-127 ASTM, loose, c.l., ref'y. lb. .0710- —
120-130 ASTM, loose, c.l., ref'y. lb. .0730- —
130-132 ASTM, loose, c.l., ref'y. lb. .0735- —
132-134 ASTM, loose, c.l., ref'y. lb. .0760- —
135-137 ASTM, loose, c.l., ref'y. lb. .08 - —
Paraffin prices in bgs. and ctns., 7/10c. per lb. higher; 1,000 to 9,999 lbs., 2.7c. per lb. higher, and under 1,000 lbs., 3.7c. per lb. higher.
Paraformaldehyde, dms., 1,000 lbs., works lb. .24 - —
smaller lots, works lb. .25 - —
Paraldehyde, tech., 98%, 55 gals., dms., l.c.l., works lb. .12½ .13½
5-10-gal. dms., l.c.l., works lb. .16½- —
tanks, works lb. .11 - —
USP, cbys lb. .51 - .53
Paranitroanilin, kgs., works lb. .44½- —
Paranitrochlorobenzene, kgs., works. lb. .18 - —
Paranitrophenol, kgs., works, frt. equald lb. .40 - —
Paranitrotoluene, kgs., works lb. .39 - —
Paraphenetidin, dms., works lb. .88 - —
Paraphenylphenol, bgs., works lb. .28 - .29
Paraphenylenediamine, tech., kgs., works lb. 1.30 - —
Paratertiarybutylphenol, bgs., works. lb. .19 - .20
Parathion tech., dms., c.l., works lb. 2.50 - —
l.c.l., works lb. 2.55 - —
Paratoluenesulphonamide, bbls., works lb. .70 - —
Paratoluidin, bbls., works lb. .55 - .63
Pareira brava root, whole, bgs lb. .30 - .31
ground, bxs lb. .40 - .41
powder, bxs lb. .42 - .43
Paris green, dealer, distributor, dms., kgs., c.l., works, frt. alld. E lb. .31 - —
l.c.l., same basis lb. .32 - .33
Passion flower herb, bls lb. .26 - .28
Patchouli leaves, bls lb. .50 Nom.
Peanut meal, 45%, sacked, mills ton. 63.00 - —
Pectin, NF, powd., citrous, bbls lb. 2.05 - 2.06
tech., powd., bbls lb. 1.42 - 1.43
Penicillin, calcium, USP, amorphous, bulk, 500,000,000 to 5,000,000,000 unit lots 100,000 units. .05½- .06¼
Potassium, crystalline, bottles, distributors, unlabeled 100,000 units bot. .14½- —
200,000 units bot. .22 - —
500,000 units bot. .44½- —
1,000,000 units bot. .82 - —
bulk, 500,000,000 to 5,000,000,000 unit lots 100,000 units. .06½- .07½
Procaine, crystalline G, in oil, with or without Al. Ms., 10cc. bottles, 300,000 units per cc., distributors, unlabeled bot. 3.40 - —
regular or micronized, bulk, 500,000,000 to 5,000,000,000 unit lots 100,000 units. .07 - .07¾
Penicillin sodium, USP, amorphous, bottles, distributors, unlabeled 100,000 units bot. .12½- —
200,000 units bot. .18 - —
500,000 units bot. .34½- —
1,000,000 units bot. .62 - —
crystalline, bottles, distributors, unlabeled, 100,000 units. bot. .14¾- —
200,000 units bot. .22½- —
500,000 units bot. .45¾- —
1,000,000 units bot. .84½- —
bulk, 500,000,000 to 5,000,000,000 unit lots 100,000 units. .07 - .07¾
Pennyroyal leaves, bls. lb. .28 - .30
Pentachlorophenol, dms., works lb. .20 - .25
Pentaerythritol, tech., bgs., c.l., works lb. .32 - —
l.c.l., works lb. .34 - .36
Di and tri-isomers (see Dipentaerythritol and Tripentaerythritol).
Pentane, industrial, tanks, group 3. gal. .10½- .11½
Pepper, black, bgs lb. .98 Nom.
futures, bgs., nearby lb. .92 - .93
Mar. ship't, new crop lb. .90 - .91
April ship't, bgs lb. .89 - .90
May ship't, bgs lb. .88 - .89
Red, Carolina, bgs lb. .50 Nom.
Hontaka, bgs., futures lb. .60 - .60½
Louisiana longs, bgs lb. .18 Nom.
Mombassa chillies, bgs lb. .33 - .34
Niger, capsicum, bgs lb. .37 - .38
birdseye, bgs lb. .50 Nom.
White, bgs. lb. 1.15 - 1.20
April shipment lb. 1.12 - 1.15
Peppermint, USP, dom., bls lb. .60 - .65
imported, bls. lb. .75 - .85
Pepsin, NF, bulk containers lb. 3.90 - —
Perchloroethylene, dms., c.l., zone 1, works, frt. alld lb. .11 - —
zone 2, same basis lb. .11½- —
zone 3, same basis lb. .12 - —
zone 4, same basis lb. .11½- —
l.c.l., zone 1, same basis lb. .11¾- —
zone 2, same basis lb. .12¼- —
zone 3, same basis lb. .12¾- —
zone 4, same basis lb. .12¼- —
tanks, zone 1, same basis lb. .10½- —
zone 2, same basis lb. .11 - —
zone 3, same basis lb. .11½- —
zone 4, same basis lb. .11 - —

Perchloroethylene zones are:—(1) Conn., Del., Ill., Ind., Ia., Ky., Me., Md., Mass., Mich., Minn., Mo., Neb. (Omaha), Kans. (Kansas City), N. J., N. Y., N. C., Ohio, Pa., R. I., Tenn., Vt., Va., W. Va., Wis.; (2) Ala., Ark., Fla., Ga., Kansas, La., Miss., Neb., N D., Okla., S. C., S. D.; (3) Colo., Mont., (E) N. M., Tex., Wyo.; (4) Ariz., Cal., Idaho, Mont., (W), Nev., Ore., Utah, Wash.

Peru balsam, dms lb. .85 - 1.00
Petrolatum, tech., dark, bbls., c.l., group 3 lb. .021 —
f.o.b. Indiana refy lb. .04½- —
golden topaz, bbls., c.l lb. .032 - —
l.c.l. lb. .050 - —
red, veterinary, bbls., c.l lb. .024 - —
l.c.l. lb. .038 - —
USP, amber, non-ref. dms., c.l lb. .04⅞- —
Pennsylvania refy lb. .04½- —
l.c.l. lb. .06 - —
California refy lb. .06¼- —
cream, c.l., dms lb. .05⅞- —
l.c.l. lb. .06¼- —
extra, amber, dms., c.l lb. .05⅞- —
Pennsylvania refy lb. .04⅞- —
l.c.l. lb. .06¼- —
white, lily, dms., c.l lb. .06⅞- —
l.c.l. lb. .08½- —
snow, dms., c.l lb. .07⅞- —
Pennsylvania refy lb. .07⅞- —
l.c.l. lb. .08¾- —
California refy lb. .12 - —
soft, dms., c.l lb. .06⅞- —
Pennsylvania refy lb. .06⅞- —
l.c.l. lb. .07⅞- —
California refy lb. .10½- —
yellow, soft, dms., c.l lb. .05 - —
Pennsylvania refy lb. .04⅝- —
l.c.l. lb. .06⅛- —
California refy lb. .03⅛- —
Petroleum, crude, bulk, at wells, California bbl. 1.94 - 2.38
Illinois bbl. 2.45 - 2.87
Kentucky bbl. 2.43 - 2.83
Louisiana-Arkansas bbl. 2.14 - 2.75
Montana bbl. 1.97 - 2.775
Oklahoma-Kansas bbl. 2.23 - 2.65
Pennsylvania, lower field bbl. 3.75 - —
Upper field bbl. 3.65 - 4.50
Texas, East bbl. 2.65 - —
Gulf coast bbl. 2.38 - 2.95
North, North-Central bbl. 2.23 - 2.65
Panhandle bbl. 2.23 - 2.65
West bbl. 2.10 - 2.65
Wyoming bbl. 1.97 - 2.65
Ether, laboratory, 30°-60° C, cns., dlvd. E gal. 1.50 - —
dms., c.l., group 3 gal. .26 - —
l.c.l., same basis gal. .44 - —
35°-60° C, 10-gal. cns., dlvd. E. gal. 1.50 - —
dms., c.l., Group 3 gal. .26 - —
l.c.l., same basis gal. .44 - —
40°-75° C, 10-gal. cns., dlvd. E gal. 1.50 - —
dms., c.l., Group 3 gal. .26 - —
l.c.l., same basis gal. .44 - —
90°-160° C, ret. dms., ex tax, f.o.b. San Francisco gal. .57 - —
Fuel oil, bunker C, No. 6, California, heavy tanks, refinery, bbl. 2.10 - 2.25
light, tanks, refinery bbl. 2.35 - 2.45
Eastern, tanks, Albany, N. Y. bbl. 2.30 - —
Baltimore, Md. bbl. 1.90 - 2.15
Boston bbl. 1.95 - 2.175
Charleston, S. C. bbl. 1.80 - —
Jacksonville, Fla bbl. 1.80 - 2.04
New York, N. Y. bbl. 1.90 - 1.95
Norfolk, Va bbl. 1.90 - 2.12
Philadelphia, Pa bbl. 1.90 - 2.05
Portland, Me bbl. 1.95 - 2.175
Providence, R. I bbl. 1.925 - 2.15
Savannah, Ga bbl. 1.80 - 2.04
Diesel, tanks, refinery, California gal. .081 - .118
Pennsylvania gal. .1025- —
Furnace, tanks, refinery, Arkansas, No. 2 gal. .07875- —
No. 3 gal. .07625- —
Bayonne, N. J., No. 2 gal. .083 - —
Group 3, No. 1 gal. .08375- .0875
No. 1, straw gal. .08375- .0875
No. 2, straw gal. .0775- .085
range gal. .08375- .08875
Pennsylvania, No. 1 gal. .1075- .113
No. 2 gal. .1025- .1075
No. 3 gal. .1025- —
Lacquer diluent, California, 170-225 F, b.r., tanks, ex tax, f.o.b. Los Angeles gal. .147 - —
255 F, b.r., tanks, ex-tax, Portland, Ore gal. .158 - —
San Francisco gal. .152 - —
Seattle, Wash gal. .158 - —
East coast, tanks, N. J. and N. Y. refinery gal. .16 - —
Group 3, benzol-type, tanks, refinery gal. .1225 .13
toluol-type, tanks, refinery gal. .1225 .13

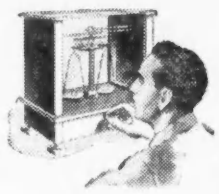


Petroleum, mineral spirits, California, 170-255 b.r., tanks, ex tax, f.o.b. San Francisco gal. .152 - —
205-295 b.r., tanks, same basis gal. .152 - —
245-360 b.r., tanks, same basis gal. .152 - —
305-365 b.r., tanks, same basis gal. .142 - —
312-400 b.r., tanks, same basis gal. .142 - —
360-455 b.r., tanks, same basis gal. .152 - —
East coast, tanks, N. J., N. Y., refinery gal. .14 - —
Group 3, tanks gal. .1025- .115
tankwagon, Baltimore gal. .175 - —
Boston gal. .16 - —
Buffalo gal. .165 - —
Camden, N. J. gal. .15 - —
Chicago gal. .195 - —
Detroit gal. .211 - —
Kansas City, Mo. gal. .182 - —
Lancaster, Pa. gal. .16 - —
Newark gal. .15 - —
New York gal. .15 - —
Philadelphia gal. .15 - —
Pittsburgh gal. .175 - —
Providence gal. .165 - —
Rochester gal. .175 - —
St. Louis gal. .189 - —
Syracuse gal. .185 - —
Washington, D. C. gal. .175 - —
Naphtha, cleaners, California, tanks, San Francisco gal. .123 - —
East coast, tanks, N. J., N. Y., refinery gal. .14 - —
Group 3, tanks gal. .1025- .12
tankwagons, St. Louis gal. .1890 - —
Newark gal. .15 - —
Chicago gal. .195 - —
Detroit gal. .211 - —
New York gal. .15 - —
Philadelphia gal. .15 - —
high-flash, 140° F, group 3, refinery, tanks gal. .13 - .145
200-265 b.r., 37-38° C, mixed anilin pt. gal. .22 - —
25-28° C, m.a.p. gal. .21 - .26½
270-370 b.r., 73-81° C, m.a.p. gal. .24½- .26
270-370° b.r., 49° C, m.a.p gal. .29 - —
25° C, m.a.p gal. .21 - .26
360-400 b.r., 26-32° C, m.a.p. gal. .21 - .26½
340-410 b.r., 32° C, m.a.p. gal. .21 - —
35° C, m.a.p gal. .21 - .26½
340-440 b.r., 32° C, m.a.p. gal. .26½- —
360-450 b.r., 25° C, m.a.p. gal. .21 - —
V.M.&P., California, 245-360 b.r., tanks, ex tax, f.o.b. Los Angeles gal. .147 - —
Portland, Ore. gal. .153 - —
San Francisco gal. .152 - —
Seattle, Wash. gal. .138 - —
East coast, N. J., N. Y., tanks, gal. .15 - —
Group 3, tanks gal. .1125- .12
Gulf coast, tanks, New Orleans gal. .12375- —
tankwagon, Boston gal. .175 - —
Chicago gal. .205 - —
Detroit gal. .221 - —
Milwaukee gal. .207 - —
Minneapolis gal. .205 - —
Newark gal. .165 - —
New York gal. .165 - —
Philadelphia gal. .165 - —
Pittsburgh gal. .185 - —
St. Louis gal. .199 - —
Solvent, rubber, California, tanks, ex tax, San Francisco gal. .152 - —
East coast, N. J., N. Y., gal. .15 - —
Group 3, tanks gal. .11 - .1175
Stoddard, California, tanks, ex tax, San Francisco gal. .142 - —
East coast, N. J., N. Y., tanks gal. .14 - —
Group 3, tanks gal. .11 - .1175
Pennsylvania, western, tanks, gal. .10 - —
tankwagon, Boston gal. .16 - —
Chicago gal. .195 - —
Detroit gal. .211 - —
Milwaukee gal. .197 - —
Minneapolis gal. .195 - —
Newark gal. .15 - —
New York gal. .15 - —
Philadelphia gal. .15 - —
Pittsburgh gal. .175 - —
St. Louis gal. .189 - —
Syracuse gal. .185 - —
Sulphonate, 70% sulphonic content, ret. dms., c.l., works lb. .15¼- —
l.c.l., works lb. .15½- —
tanks, works lb. .13¾- —
50% sulphonic content, ret. dms., c.l., works lb. .12¼- —
l.c.l., works lb. .12½- —
tanks, works lb. .10¾- —
Phenobarbital, USP, dms., 100 lbs. lb. 4.00 - 4.35
Phenol, 90-92% (cresol, 8-10%), dms., c.l., works, and frt. equald lb. .13½- —
l.c.l., same basis lb. .14¼- —
tanks, same basis lb. .12½- —
82-84% (cresol, 16-18%), dms., c.l., same basis lb. .14 - —
l.c.l., same basis lb. .14¾- —
tanks, same basis lb. .13 - —
USP, dms., c.l., same basis lb. .13½- .14¼
l.c.l., same basis lb. .14¼- .15¼
tanks, same basis lb. .12½- —
Phenolphthalein, USP, yellow, bbls., dms., 2,000 lbs lb. 1.00 - —
smaller lots lb. 1.01 - 1.04
Phenothiazin, NF, fib, dms., 18,000 lbs., works lb. .44 - —
smaller lots, works lb. .46 - —
Phenylacetaldehyde solution, 50%, bots lb. 2.35 - 2.63
100% bots lb. 4.00 - 4.15
Phenylacetamide, dms., works, 1,000 lb. lots lb. 1.45 - —
smaller lots lb. 1.60 - —
Phenyl acetate, dms., 100-lb. lots, works lb. .50 - —
Salicylate (see Salol).
Phenylalanine dextro laevo, dms., works lb. 30.00 -37.50
Phenyldiethanolamine, dms., c.l., works lb. .35½- —
l.c.l., works lb. .36½- —
Phenylethanolamine, dms., c.l., works lb. .67½- —
l.c.l., same basis lb. .68½- —
Phenylethyl acetate, dms lb. 1.40 - 1.80
Phenylethylphenyl acetate, bots lb. 4.50 - 6.00
Phenylhydrazin base, CP, bots lb. 3.00 - 3.07
Hydrochloride, CP, bots., works, lb. 5.00 - 5.07
commercial, kgs., works lb. 1.75 - —
Phenylmethylpyrazolone, dms., works lb. 1.58 - 1.60
Phloroglucinol, CP, fib, dms., works lb. 13.75 -15.75
commercial fib, dms., works lb. 7.00 - 8.00
tech., fib., dms. lb. 10.00 -10.75
Phosgene, 150-lb. cyls., works lb. .20½- —
10-lb. cyls., works lb. 1.50 - —
Phosphates (defluorinated (see under P).,
Phosphate rock, Florida, land pebble, run-of-mine, washed, dried, unground, 68-66%, b.p.l., bulk, c.l., car at mine long ton 3.85 - —
70%-68%, b.p.l., c.l. same basis long ton 4.25 - —
72%-70%, b.p.l., c.l., same basis long ton 4.85 - —
75%-74%, b.p.l., c.l., same basis long ton 5.85 - —
77%-76%, b.p.l., c.l., same basis long ton 6.85 - —
finely ground, 65.5% b.p.l., basis 30% P_2O_5 minimum, short ton 4.93 - —
68% b.p.l., basis 31% P_2O_5 minimum short ton 5.28 - —
70% b.p.l., basis 32% P_2O_5 minimum short ton 5.83 - —

Prices for Florida phosphate rock are plus usual bonus penalty clause on oil and labor. Prices on entirely pebble, 50c. per long ton higher than above quotations.

Tennessee, brown run of mine, unground, 27-26% P_2O_5 long ton 6.46 - —
30-29% P_2O_5 long ton 7.21 - —
Phosphorus, red, amorphous, cs lb. .33 - .36
tins, export lb. .34 - .37
Yellow, cns lb. .30 - .37
dms., c.l. lb. .26 - —
Oxychloride, dms., works lb. .12 - .15
Pentoxide, dms., c.l., works lb. .12 - —
l.c.l., works lb. .13 - .14
Sesquisulphide, tins, cs., works lb. .28 - .29
dms., export lb. .33½ - .36
Trichloride, dms., c.l., works lb. .12 - .15
l.c.l., works lb. .13 - .16
Phthalamide, bbls., works lb. .35 - .40
kgs., works lb. .45 - .50
Phthalic anhydride, bgs., bbls., c.l., works, frt. equald lb. .22½- —
Pacific Coast, dlvd lb. .22 - .24¼
l.c.l., frt. equald lb. .23½- —
Pacific Coast, dlvd lb. .24 - .26¼
Pichl leaves, bgs lb. .07 - .08
Picoline (see Alphapicoline and Betapicoline).
Picrotoxin, USP, bots oz. 8.00 - —
Pilocarpine hydrochloride, NF, bots., vials oz. 6.50 - 7.50
Nitrate, USP, bots, vials oz. 6.25 - 7.25
Pimento, Jamaica, bgs lb. .23 - .23½
Pinetar, retort, dms, incl., c.l., works, South gal. .43½- —
l.c.l., same basis gal. .45½- —
whse., N.Y.C. gal. .54¾- —
tanks, works, South gal. .34½- —
Pinkroot, bls lb. 1.95 - 2.10
Piperidine, 95%, dms., frt. equald. lb. 1.65 - —
98%, dms., same basis lb. 1.75 - —
Piperazine hexahydrate, bots lb. 8.50 9.00
Pipsissewa herb (see Prince's pine).
Pitch, coaltar, 150°F. m.p., bbls., c.l., works ton 34.00 - —
l.c.l., works ton 36.00 -37.00
Cottonseed, dms., works lb. .10½- .10¾
Hardwood, paper bgs., works lb. .04 - —
Linseed, dms lb. No prices.
Petroleum (see Asphaltum, Mexican, Texas).
Pine, dms., ex whse. East 100 lbs. 6.90 - —
Soybean, dms., works lb. .10¼- .10½
Plaster of paris (see Gypsum)
Platinum metal, works oz. 72.00 -75.00
Pokeroot, bls. lb. .16 - .17
Pleurisy roots, bls lb. .25 - .26
Podophyllin, NF, dms lb. 14.25 - —
Polystyrene, plain colors, dms., 30,000 lbs., works, frt. alld lb. .33 - —
20,000 lbs., same basis lb. .34 - —
smaller lots, same basis lb. .35 - .42
water-clear, dms., 30,000 lbs., works, frt. alld lb. .27 - —
20,000 lbs., same basis lb. .28 - —
smaller lots, same basis lb. .29 - .35
Pomegranate root bark, bgs lb. .75 Nom.
Poppy flowers, bls lb. .50 - .55
Seed, Dutch, bgs lb. .18 - .18½
Polish, bgs lb. .16½- .17
Turkish, bgs lb. .13¼- .13¾
Potash, caustic, low-chloride, flake, 90%, dms., c.l., works 100 lbs. 9.55 - —
l.c.l., works 100 lbs. 9.75 - —
liquid, dms., c.l., 45%, works, 100 lbs. 4.525 - —
l.c.l., works 100 lbs. 5.025 - —
tanks, works 100 lbs. 4.20 - —
solid, 90%, dms., c.l., works, 100 lbs. 9.15 - —
l.c.l., works 100 lbs. 9.90 - —
regular, flake, 88-92%, dms., c.l., works lb. .0815- —
l.c.l., works lb. .089 - —
liquid, 45% basis, dms., c.l., works lb. .03725- —
l.c.l., same basis lb. .0450- —
tanks, same basis lb. .0340- —
solid, 88-92%, dms., c.l., works, lb. .0755- —
l.c.l. lb. .0830- —

HEYDEN SALICYLATES
FOR QUALITY FORMULATIONS



Heyden's laboratory tested Salicylates are valuable for their antipyretic and analgesic properties, as well as for other medicinal uses. They are manufactured under rigid controls that assure high uniformity and purity. When you specify Heyden Salicylates for prescription and commercial uses, you secure consistant yields, unusually fine tableting properties, and finished products of superior quality.

Consult our technical staff on problems involving special or standard uses of Salicylates.

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METHYL SALICYLATE U.S.P.
(Oil Wintergreen, synthetic)
PHENYL SALICYLATE N.F.
(Salol)
Granular or powder
CALCIUM SALICYLATE
Powder
MAGNESIUM SALICYLATE
Powder
ACID ACETYLSALICYLIC U.S.P.
Crystals or powder
SODIUM SALICYLATE U.S.P.
Crystals or powder
AMMONIUM SALICYLATE N.F.
Crystals
LITHIUM SALICYLATE N.F.
Powder
STRONTIUM SALICYLATE N.F.
Powder

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Formaldehyde · Formic Acid · Glycerophosphates · Guaiacols · Hexamethylenetetramine · M. D. A. (Methylene Disalicylic Acid)
Paraformaldehyde · Parahydroxybenzoates · Penicillin · Pentaerythritols · Salicylates · Salicylic Acid · Streptomycin

FINE HEYDEN CHEMICALS

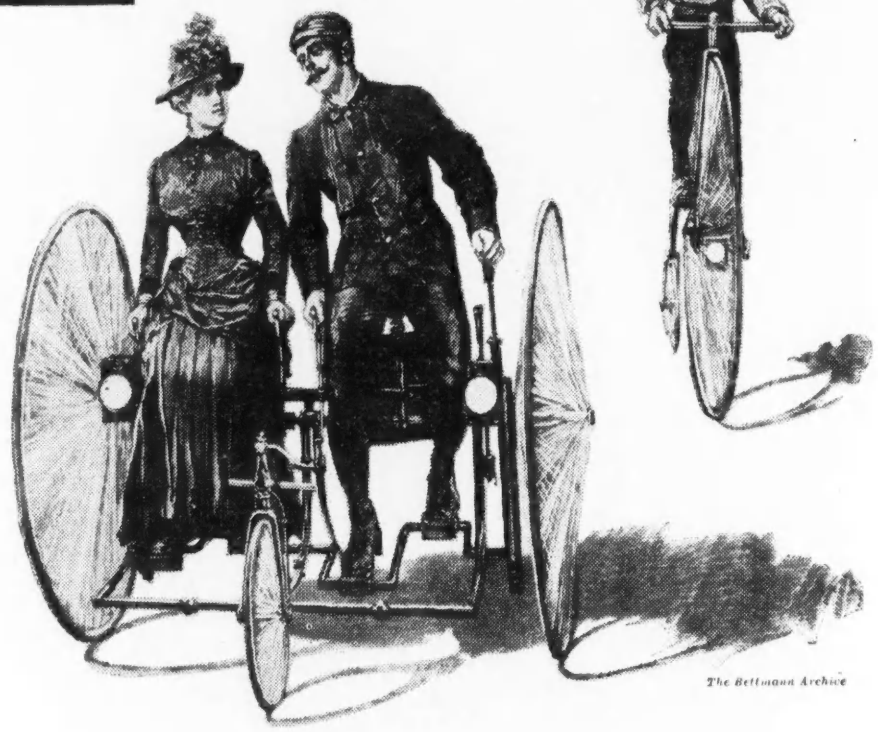
Potassium Abietate—Quinolin

Potassium abietate	lb.	.08 - —
Acetate, USP, dms	lb.	.31 - —
Bicarbonate, USP, gran., dms	lb.	.20 - .22
powd., dms	lb.	.22 - .24
Bichromate, contract, bgs., c.l., works	lb.	.12¾- —
l.c.l., contract	lb.	.12¾- .13
spot, bgs., c.l.	lb.	.14½- —
l.c.l.	lb.	.14⅝- —
Potassium bichromate in bbls., ¼c. higher.		
Bitartrate (see Cream of tartar).		
Borate, gran., bbls., c.l., works	ton.	192.00 - —
ton lots, works	ton.	245.50 - —
less ton lots, works	ton.	250.50 - —
Bromate, bbls., 1,000 lbs. or more.	lb.	.48 - —
25-200 lbs	lb.	.60 - —
Bromide, USP, cryst., gran., bbls., kgs	lb.	.33 - 34
Carbonate, tech., calcined, bbls., c.l., works	lb.	.0780- —
l.c.l., same basis	lb.	.0830- —
hydrated, 83-85%, bbls., c.l., works	lb.	.06¼- —
dms., l.c.l., works	lb.	.06¾- —
USP, gran., bbls., dms	lb.	.16½- .18
powd., bbls., dms	lb.	.21 - .23
Chromate, tech., bgs	lb.	.25 - .29
Chlorate, cryst., kgs., c.l., works.	lb.	.08½- —
l.c.l., works	lb.	.09¾- —
powd., dms., kgs., c.l., works	lb.	.09 - —
l.c.l., works	lb.	.09¾- —
export, kgs., 1 to 10 tons, ex whse	lb.	.12 - —
NF, gran., dms	lb.	.31 - .33
Chloride, USP, cryst., dms	lb.	.26 - .27
gran., bbls	lb.	.20 - .22
powd., bbls	lb.	.29 - .32
Potassium, citrate, USP, gran., dms	lb.	.37½- .42½
Potassium citrate, USP, powd., 3c. per lb. higher.		
Cyanide, dms., works	lb.	.55 - —
Fluoride, dms., works	lb.	.24 - —
Glycerophosphate, 75% solution, cbys.	lb.	2.05 - 2.20
Guiacol sulphonate, NF, dms.	lb.	1.80 - 1.85
Hydroxide, tech. (see Potash, caustic).		
USP, pellets, jars	lb.	.33 - —
Hypochlorite liquid, cbys., dms., works	100 lbs.	3.50 - —
Hypophosphite, NF, 50-lb. lots	lb.	.90 - .93
Iodide, dms.	lb.	2.10 - 2.13
Manure salt, 22% K_2O, bulk, mines	unit-ton.	.20 - —
25% K_2O, bulk, mines unit-ton.		.21 - —
Metabisulphite, gran., bbls	lb.	.21 - —
powd., bbls	lb.	.25 - —
Muriate, dom., 60% K_2O, bulk, Carlsbad, N. M	unit-ton.	.37½- —
Trona, Cal	unit-ton.	.45½- —
Nitrate (see Saltpeter).		
Oxalate, neutral, tech., fine gran., bbls	lb.	.30 - —
Perchlorate, kgs., c.l., works	lb.	.13½- —
dms., l.c.l., works	lb.	.14 - .15
Permanganate, tech., dms., works,	lb.	.21¾- .22¼
USP, dms., works	lb.	.23½- —
ex whse	lb.	.29 - —
Persulphate, dms., c.l., works	lb.	.17 - —
l.c.l., works	lb.	.21 - —
Phosphate, tetrabasic, bbls., works	lb.	.13 - .13¼
Prussiate, red, kgs	lb.	.60 - .63
yellow, bbls	lb.	.21 - —
kegs	lb.	.26 - —
Ricinoleate, tech., bbls	lb.	.18 - —
Potassium, silicate, glass, bgs., c.l., works	ton.	200.00 - —
l.c.l.	100 lbs.	15.25 - —
Solution, 29° Be, ret. dms., c.l., works	100 lbs.	4.25 - —
l.c.l., 5 or more, works,	100 lbs.	5.00 - —
1-4, works	100 lbs.	5.50 - —
62° Be, net, dms., c.l., works,	100 lbs.	4.75 - —
l.c.l., 5 or more, works,	100 lbs.	5.50 - —
1-4, works	100 lbs.	6.00 - —
40.5° Be, ret. dms., c.l., works,	100 lbs.	5.75 - —
l.c.l., 5 or more, works,	100 lbs.	6.50 - —
1-4, works	100 lbs.	7.00 - —
Silicofluoride, bbls., works	lb.	.07 - .08
Sulphate, agricultural, dom., bulk, basis 90-95% K_2SO_4, min. 90%, works	ton.	32.50 - —
indust, bulk, works	ton.	36.00 - —
NF, cryst., bbls	lb.	.31 - .33
gran., dms	lb.	.14 - .15
Sulphocyanide, cryst., NF (see Potassium thiocyanate).		
Thiocyanate, cryst., NF, dms	lb.	.70 - .78
tech., works	lb.	.45 - .50
Titanate, ctns., c.l., works	lb.	.12 - —
5 tons, works	lb.	.12¼- —
1 ton or less, works	lb.	.12½- .13
Potassium-magnesium sulphate bulk, min., 40% K_2SO_4, 18-50% MgO, works	ton.	14.50 - —
Potassium-sodium ferricyanide, kgs., works	lb.	.48 - .49
Potassium-sodium tartrate (see Rochelle salt).		
Potassium-titanium fluoride, fib. dms., works	lb.	.45 - .55
Potassium-titanium oxalate, bbls., dms	lb.	.55 .60
Potassium-zirconium fluoride, fib. dms., c.l., works	lb.	.50 - —
l.c.l., works	lb.	.52½ .55
Prickly ash bark, bls	lb.	.28 .33
Berries, bgs.	lb.	No stocks.
Prince's pine herb, bls	lb.	.54 .60
Procaine hydrochloride, USP, cns., 200-lb. lots	lb.	4.75 - —
smaller lots	lb.	5.00 5.75
Propane, commercial grade, tanks, group 3	gal.	.04½- —
Propionaldehyde, dms., l.c.l., works,	lb.	.60 - —
Propyl acetate, dms., c.l., works	lb.	.17 - —
l.c.l., works	lb.	.18 - —
tanks, works	lb.	.15 - —
tankwagons, works	lb.	.15½- —
Aldehyde (see Propionaldehyde).		
Propylene dichloride, dms., c.l	lb.	.08½- —
l.c.l.	lb.	.09½- —
smaller containers	lb.	.12½- —
tanks	lb.	.07 - —
Oxide, dms., c.l., frt. alld. E	lb.	.20½- —
l.c.l., frt. alld. E	lb.	.21½- —
tanks, frt equald. E	lb.	.13½- —
Propyleneglycol NF dms., c.l., frt. alld. E	lb.	.17½- —
l.c.l., same basis	lb.	.18½- —
tanks, same basis	lb.	.16 - —
tech., dms., c.l., frt. alld. E	lb.	.16½- —
l.c.l., same basis	lb.	.17½- —
tanks, same basis	lb.	.15 - —
Methylether, dms., c.l., frt. equald.	lb.	.13 - —
l.c.l., same basis	lb.	.13½- —
tanks, same basis	lb.	.16½- —
Propylthiouracil, bots., works	kilo.	55.00 - —
Psyllium seed, black, bgs	lb.	.30 .33
blonde, bgs	lb.	.23 .26
husks, bgs	lb.	.65 .70
Pulsatilla herb, bls	lb.	.55 .60
Pumice, dom., grd., course, 0, 1, 1½, 2, 3, bgs., ton lots.	lb.	.03⅜- .0-
Chicago, bgs., ton lots	lb.	.04½- —
smaller lots	lb.	.03⅜- .04¼
fine, bgs., ton lots	lb.	.03⅜- —
smaller lots	lb.	.03⅜ .04
Italian, silk-screen, fine, bgs., ton lots	lb.	.04 - —
coarse, bgs., ton	lb.	.05½- —
sun dried, fine bgs., ton lots	lb.	.03 - —
coarse, bgs., ton lots	lb.	.04½- —
Pumice in bbls is ½c. per lb. higher.		
Pumpkin seed, bgs	lb.	.25 .26
Purple lake (see Red).		
Pyrethrum concentrate, dewaxed, 20%; for aerosol bombs, dms., works	lb.	8.50 9.50
liquid (20 to 1), basis 2 grams pyrethrins per 100cc., odorless base, dms., works	gal.	6.75 7.25
regular base, dms., works,	gal.	6.65 7.15
(30 to 1) base 3 grams pyrethrins per 100cc., odorless base, bbls., works	gal.	9.95 -10.65
regular base, dms., works,	gal.	9.83 -10.52
Flowers, fine-grd., 0.9% pyrethrins, bbls., works	lb.	.26 - .27½
powder, 1.3% pyrethrins, bbls., works	lb.	.37½- .39½
Pyridin, denaturing ret. dms., works and frt. equald	gal.	2.49 2.72
refd., 2° non-ret. dms., c.l., same basis	lb.	.79 - .80
l.c.l., same basis	lb.	.79½- .80
ret. dms., l.c.l., same basis	lb.	.69 .80
Pyridoxin hydrochloride, 100-gram lots	gram.	.55 —
Pyrites, Spanish, c.i.f. All ports,	long-ton.	8.00 - —
Pyrocatechin (see Catechol).		
Pyrophyllite, standard, 200 mesh, bulk, c.l., mines	ton.	11.00 -11.50
230 mesh bulk, c.l., mines	ton.	12.00 - —
325 mesh, bulk, c.l., mines	ton.	15.00 - —
No. 3, 200 mesh bulk, c.l., mines.	ton.	9.50 - —
insecticide grade, 200 mesh, bulk, c.l., mines	ton.	9.00 -10.00
rubber grade, 140 mesh, bulk, c.l., mines	ton.	7.00 - —
Pyrophyllite in paper bgs., $3 to $3.50 per ton extra.		
Pyroxylin scrap, opaque, amber, cs., works	lb.	.17 - —
black, cs., works	lb.	.14 - —
gray, cs., works	lb.	.14 - —
mixed, mottled, cs., works	lb.	.12 - —
white, china, ivory, cs., works.	lb.	.17 - —
dense, cs., works	lb.	.17 - —
translucent, pastels, cs., works.	lb.	.17 - —
transparent, colorless, cs., works	lb.	.19 - —
colors, cs., works	lb.	.17 - —
shavings, opaque, amber, cs., works	lb.	.15 - —
mixed, colors, cs., works	lb.	.14 - —
white, cs., works	lb.	.17 - —

Q

Quassia chips, bls	lb.	.07 - .09
Quebracho extract, clarified, grd., 70% tannin, bgs., c.l., duty extra	lb.	.17½ Nom.
liq., 35% tannin, bbls., works	lb.	.09 - —
tanks, same basis	lb.	.08¼- —
solid, 64% tannin, bgs., c.l., duty extra	lb.	.11½- —
powd., 70% tannin, bgs., c.l., same basis	lb.	.18 Nom.
ordinary, solid, 63% tannin, bgs., c.l., ex dock, same basis	lb.	.10¾- —
Quebracho extract prices are based on $20.40 freight and $1 insurance per long ton.		
Queen of the meadow root, bgs	lb.	.12 - .13
Quercitron crystals, bbls., l.c.l.	lb.	.33½- —
Extract, liquid, bbls., l.c.l.	lb.	.14½- —
solid, bgs.	lb.	.28 - —
Quicksilver, flasks (76 lbs.) net.	flask.	87.00 -89.00
Quince seed, bgs	lb.	.95 - 1.75
Quinindine, NF, V, cryst., cns.	oz.	2.10 - —
powd., precip., cns	oz.	2.05 - —
Sulphate, USP, cns	oz.	1.35 - —
Quinine, NF, cns., 100 ozs	oz.	1.00 - —
Bisulphate, USP, cns., 100 ozs.	oz.	.73 - —
Dihydrochloride, USP	oz.	1.00 - —
Ethylcarbonate, NF, cns., 100 ozs.	oz.	1.07 - —
Hydrobromide, NF, cns., 50-oz. cns.	oz.	.91 - —
Hydrochloride, USP, cns., 100 ozs.	oz.	.91 - —
Hypophosphite, cns., 100 ozs.	oz.	1.35 - —
Phosphate, NF, cns., 100 ozs.	oz.	1.10 - —
Salicylate, NF, cns., 100 ozs.	oz.	.95 - —
Sulphate, USP, cns., 100 ozs.	oz.	.80½- —
Quinine-urea hydrochloride, NF, cns.	oz.	.97 - —
Quinolin, dms., c.l., works	lb.	.50¾- .54½
l.c.l., works	lb.	.51¼- .55

Tricycle built for "woo"....



The Bettmann Archive

Many a proposal was made in a "gay nineties" tricycle. And in that same era—almost a half-century ago—the founders of Niagara Alkali began the first of a long series of important proposals for pioneering and developing the electro-chemicals industry in America.

Something to remember is that this vital pioneering activity that has gone on through the years has given Niagara advanced knowledge and experience that can be of constant benefit to you in the use of Niagara Caustic Soda, Caustic Potash, Carbonate of Potash, EBG Liquid Chlorine, Paradichlorobenzene and Niagathal (Tetrachloro Phthalic Anhydride).

NIAGARA ALKALI COMPANY

60 East 42nd Street, New York 17, N. Y.

LIQUID CHLORINE • CAUSTIC POTASH • CARBONATE OF POTASH • PARADICHLOROBENZENE • CAUSTIC SODA • NIAGATHAL (TETRACHLORO PHTHALIC ANHYDRIDE)

R

R salt, paste, dry basis, dms. .... lb .70 - .75
Raspberries, dried, bbls. ..... lb. 1.90 - 2.00
Red, alizarin lake, bbls., dlvd. N. of Tenn. and N. C., E. of Miss. including St. Paul, Minneapolis, Davenport, Rock Island, St. Louis. lb. 1.43 - 2.25

Prices ½c per lb. higher dlvd. Ala., Fla., Ga., La. (Shreveport, 1¼c.), Miss., N. C., S. C., Tenn., Tex. (Dallas, Ft. Worth, 1¼c.), El Paso, 2c.); Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph, 1.6c. per lb. higher, dlvd. Pacific coast prices equaled with Chicago, dlvd. Denver, Pueblo, Salt Lake City, Wichita.

Cadmium lithopone, deep shade, bbls., frt. alld. E. of Rockies. lb. 1.35 —
light shade, bbls., same basis. lb. 1.20 —
maroon, bbls., same basis.. lb. 1.45 1.55
medium shade, bbls., same basis lb. 1.30 - —
medium-light shade, bbls., same basis lb. 1.25 - —
orange-red, bbls., same basis lb. 1.15 —

Red cadmium lithopone, all shades, in smaller pkgs., 5c. per lb. higher; all prices are 1c. per lb. higher ex whse. Los Angeles and San Francisco.

Carmine, No. 40 (see Carmine).
Crocus martis (see Red, maroon iron oxide).
Dyes (see Dyes, coaltar)
Eosin toner, bbls., works .... lb. .135 - —
Indian, dom., pure, bgs., Bethlehem, Easton, E. St. Louis, N. Y. lb. .11½- .11¾
Iron oxide, synth., bgs ..... lb. .11½- .11¾
75½-85½ copperas oxide, bgs., l.c.l., Bethlehem, Pa., Copley, O.; Easton, Pa.; E. St. Louis, and Trenton, N. J. lb. .05¼- .09¼
special, high color, all shades lb. 1.00 - —
Lake C toner alizarin, bbls., works lb. 1.05 - —
Lithol toner, bbls., works .... lb. .80 - —
Lithol-rubin toner, alizarin, lake, bbls., works lb. 1.40 - —
Maroon, alizarin lake, 25½, kgs., works lb. .40 - .43
toner, bbls., works ..... lb. 1.35 - 1.50
Cadmium, deep, bbls., works lb. 1.20 - —
regular, bbls., works .... lb. 1.10 - —
Iron oxide, bgs., l.c.l., works .. lb. .04 - —
MNPT toner, kgs., works .... lb. 3.25 - —
Maroons in smaller pkgs., 5c. per lb. higher
Mercury oxide, tech., bbls., 10,000 lbs., works lb. 2.00 - —
smaller lots, works ..... lb. 2.02 - —
Metallic, bbls., works ..... lb. .02½- .02¾
Oxide (see Red, iron oxide).
Persian gulf, bgs., works .. lb. .06¾- .07
Para toner, bbls ..... lb. .85 - .88
chlorinated, kgs ..... lb. .95 - 1.05
concentrated alizarin lake, kgs., works lb. .80 - —
Phloxin toner (see eosin toner).
Phosphotungstic, rhodamine Y, kgs., works lb. 4.45 - —
Pink lake alizarin, bbls., works lb. .20 - .25
Purple lake, kgs. ..... lb. 1.35 - —
Rose lake, alizarin, bbls., works lb. .25 - .28
Spanish oxide, grade 1, bbls., c.l., ex dock lb. .05½- .05¾
l.c.l., ex dock ..... lb. .05¾- .06
ex whse., New York .. lb. .06½- —
grade 2, bbls., c.l., ex dock lb. .05¼- .05½
l.c.l., ex dock ..... lb. .05½- .05¾
ex whse., New York .. lb. .06¼- —
Toluidin toner, alizarin lake, kgs., works lb. 1.35 - —
Turkey, bbls., works ..... lb. .14½- —
Tuscan, bbls., frt. equald ..... lb. .24½- .25
Venetian, 15%, bgs., works .... lb. .0350- —
20%, bgs., works ..... lb. .0360- —
25%, bgs., works ..... lb. .0410- —
30%, bgs., works ..... lb. .0440- —
35%, bgs., works ..... lb. .0465- —
40%, bgs., works ..... lb. .0490- —
Vermilion, Amer., bbls ..... lb. .33 - —
Quicksilver, etns ..... lb. 2.27 - —
Red Precipitate, NF, powd., fib. dms lb. 2.17 - 2.19
Red saunders wood, grd., bbls lb. .35 - —
Rennin, NF ..... lb. 6.50 - —
Resorcinol, tech., dms., works .. lb. .75 - —
USP, cryst., dms., works ..... lb. 1.30 - —
powd., dms., works ..... lb. 2.00 - —
Monoacetate, NF, dms ..... lb. 3.25 - 3.45
Rhatany root, bgs ..... lb. .09 - .10
Rhubarb root, whole, cs ..... lb. .75 - .95
powd., bbls ..... lb. .80 - 1.05
Riboflavin, USP, bots ..... kilo. 125.00 - —
Readily soluble, bots ..... kilo. 175.00 - —
Rice bran concentrate, dms., Cedartown, Ga., or Emeryville, Calif lb. .79 - —
Rochelle salt, USP, gran., powd., bbls., 5,000 lbs lb. .28½- —
smaller lots ..... lb. .29 - .30
Rose flowers, pale, bls ..... lb. .23 - .24
Rosemary flowers, bls ..... lb. 1.55 - 1.65
Leaves, French, bls. ..... lb. .12 - .12½
Portuguese, bls. ..... lb. .07 - .07½
Spanish, bls. ..... lb. .08½- .09
Rosin, gum (see Naval Stores, Protective Coatings market).
Wood, B, dms., c.l., works 100 lbs. 4.50 - —
FF, dms., c.l., works .. 100 lbs. 5.00 - —
G, H, I, dms., c.l., works 100 lbs. 5.35 - —
K, dms., c.l., works ..... 100 lbs. 5.85 - —
M, dms., c.l., works ..... 100 lbs. 5.85 - —
N, dms., c.l., works ..... 100 lbs. 5.90 - —
WG, dms., c.l., works .. 100 lbs. 5.95 - —
WW, dms., c.l., works .. 100 lbs. 6.05 - —
X, dms., c.l., works ..... 100 lbs. 6.05 - —
Rotenone, C.P., bbls., works .... lb. 20.00 - —
tech., works ..... lb. 16.50 - —
Rottenstone, bgs., c.l., mines ... ton. 36.00 - —
l.c.l., mines ..... ton. 43.00 - —
Wood, B, dms., c.l., works .. 100 lbs. 4.50 - —
FF, dms., c.l., works .... 100 lbs. 6.50 - —
Rue herb, bls ..... lb. .40 - .45
Rutin, 10 kilos ..... gram. .12 - .16½
5 kilos ..... gram. .13 - .17
smaller lots ..... gram. .13½- .21½

S

Sabadilla seed, powd., bbls ..... lb. .40 - .45
activated ground with lime, bbls lb. .28 - .30
Saccharin, USP, gran., soluble, 1,000 lbs lb. 1.50 - —
smaller lots ..... lb. 1.60 - 1.70
powd., soluble, insoluble, dms., 1,000-lb. lots lb. 1.55 - —
smaller lots ..... lb. 1.65 - 1.85
Safflower, Egyptian, bls. ..... lb. .95 - 1.00
Saffron, Mexican, bls ..... lb. 1.25 - 1.40
Spanish, USP, tins ..... lb. 19.00 - 22.50
Safrol, dms ..... lb. .68 - .75
Sage, cyprus, bgs ..... lb. .08 - .09
Dalmatian, bls ..... lb. .22½- .23
Greek, fancy, bls. ..... lb. .13½- .14
Spanish, bls. ..... lb. .13½- .14
Syrian, bgs ..... lb. .21 Nom.
Sago flour, bgs ..... lb. .07½- .08
Saligenin, etns., works ..... lb. 14.00 - 25.00
Salol, NF, gran., bbls., kgs. ..... lb. 1.00 - —
fib, dms ..... lb. 1.02 - 1.03
powdered salol, 10c. higher.

Salt, rock, paper bgs., c.l. .100 lbs. .88 - —
burlap bgs ..... 100 lbs. .98 - —
l.c.l., paper bgs ..... 100 lbs. 1.09 - 1.12
burlap bgs ..... 100 lbs. 1.19 - 1.22
Table, vacuum, common, fine, bgs., works, c.l. .100 lbs. .98 - 1.08
l.c.l., bgs. dlvd. ..... 100 lbs. 1.20 - 1.32
Saltcake, dom., bulk, dlvd ..... ton. 27.00 - —
Saltpeter cryst., bbls., 10 tons. 100 lbs. 13.90 - —
smaller lots ..... 100 lbs. 14.15 -14.40
gran., bbls., 20 tons ..... 100 lbs. 9.25 - —
smaller lots ..... 100 lbs. 10.50 -11.00
powd., bbls., 20 tons ..... 100 lbs. 10.25 - —
smaller lots ..... 100 lbs. 11.50 -12.00
NF, gran., dms ..... lb. .15¾- .17¾

Saltpeter in bags 25c. per 100 lbs. less than in barrels; in kegs, $1 more.

Sanguinarine nitrate, bots ..... oz. 4.75 5.50
Santonin, NF, cryst., powd., cns kilo. 190.00 -200.00
Saponin No. 1, cns ..... lb. 2.45 - —
Sarsaparilla root, dom., bls ... lb. .40 - .45
Honduras, bls. ..... lb. .40 - .45
Mexican, bls ..... lb. .24 - .30
Sassafras bark, ord., bls ..... lb. .30 - .31
select, bls ..... lb. .60 - .65
Savory, French, bls ..... lb. .20 - .20½
Spanish, bls ..... lb. .14 - .14½
Saw palmetto berries, bgs. ..... lb. .23 - .24
Scammony resin, lump, cns .... lb. 2.10 - 2.25
powd., cns ..... lb. 2.20 - 2.30
Root, bgs ..... lb. .13 - .14
Schaeffer's salt, bgs. ..... lb .60 - .67
Scopolamine hydrobromide (see Hyoscine hydrobromide).
Seidlitz mixture, bbls., 5,000 lbs lb. .25¾- —
smaller lots ..... lb. .26¼- —
kegs, 5,000 lbs ..... lb. .26¼- —
smaller lots ..... lb. .26¾- —
Selenium, powd., cns., 10-lb. lots lb. 2.10 —
cs., 1,000-lb lots ..... lb. 2.00 —
Senega root, bls ..... lb. 1.50 - 1.55
Senna leaf, Alex., half-leaf, bls lb. .26 - .27
sifting, bgs ..... lb. .22 - .23
Tinnevelly, No. 1, bls ..... lb. .17 - .24
No. 2, bls ..... lb. .16 - .19
No. 3, bls. ..... lb. .12 - .14
Pods, bls ..... lb. .14 - .15
powdered, bls., bxs. ..... lb. .16 - .22
Serpentaria root, bls. ..... lb. 2.45 2.50
Sesame seed, Brazil, bgs., afloat lb. .16½- .17
Central Amer., natural, bgs. lb. .17½- .18
Chinese, hulled ..... lb. .20 - .21
choice, bgs. ..... lb. .23 - .23½
Nicaragua, hulled ..... lb. .27 - .28
Salvadorean ..... lb. .15 - .15½
Turkish, yellow ..... lb. .16 - .16½
Shellac, bleached, bonedry, bgs., 1,500-lb. lots lb. .67½- —
bbls., 1,500-lb. lots ..... lb. .68 - —
kgs., 1,500-lb. lots ..... lb. .70 - —
refined, bgs., 1,500-lb. lots ... lb. .77½- —
bbls., 1,500-lb. lots ..... lb. .78 - —
kgs., 1,500-lb. lots ..... lb. .80 - —

bonedry shellac prices for less than 1,500 lbs., 1c. per lb. higher for all packages.

Shellac, lemon, No. 1, bgs ..... lb. .71 - .72
No. 2, bgs ..... lb. .69 - .70
Superfine, bgs, 10 bgs ..... lb. .65 - .66
TN, bgs., 10 bgs ..... lb. .62 - .63
Shellac in 1 to 9 bgs., 1c. more
Silica amorph., dry-grd., 325 mesh, bgs., c.l., lll. works. ton. 20.00 -30.00
l.c.l., works ..... ton. 25.00 - —
hard-quartz, 99½%, 325 mesh, bgs., c.l., works ton. 15.00 - —
l.c.l., works ..... ton. 20.00 - —
99½%, 140 mesh, bgs., c.l., works ton. 10.00 - —
l.c.l., works ..... ton. 15.00 - —
Tetrachloride, tech., dms., c.l., works lb. .14½- —
l.c.l., works ..... lb. .18½- .20½
Silver bullion, ingots, cs ..... oz. 71½- —
Cyanide, fib, dms., 2,500-oz. lots, oz. .63⅜- —
1,000-oz. lots ..... oz. .63¾- —
500-oz. lots ..... oz. .63⅞- —
100-oz. lots ..... oz. .66⅛- —
Nitrate, CP, cryst., bots., 2,500-oz. lots oz. .45⅜- —
1,000-oz. lots ..... oz. .46⅛- —
500-oz. lots ..... oz. .47¼- —
250-oz. lots ..... oz. .48 - —
USP granular silver nitrate, 2c. per oz. higher.
Proteinate, mild, USP, bots., dms., 1,000-oz. lots oz. .95 - —
strong, NF, bots., dms., 1,000-oz. lots oz. .90 - —
Simaruba bark, bls. ..... lb. .85 Nom.
Skullcap herb, Eastern, bls ..... lb. .85 - .90
Western, bls. ..... lb. .35 - .40
Skunk cabbage root, bls ..... lb. .35 - .40
Slate flour, bgs., c.l., works .. ton. 11.00 -12.00
l.c.l., ex whse ..... ton. 20.00 -60.00
Sloe berries, bgs ..... lb. .35 - .40
Smalt, black, etns ..... lb. .11 - —
Blue, etns ..... lb. .16 - —
Snakeroot, Canada, bls. ..... lb. .45 - .50
Soapbark, bls ..... lb. .19 - .20
crushed, bls., bbls ..... lb. .26 - .27
cut, foreign, bbls ..... lb. .28 - .30
powd., bbls ..... lb. .29 - .30
Soda ash, dense, 58%, paper bgs., c.l., works 100 lbs. 1.50 - —
l.c.l., stock points ... 100 lbs. 2.75 - 4.52
bbls., c.l., works ..... 100 lbs. 2.00 - —
l.c.l., stock points .... 100 lbs. 3.25 - 5.62
bulk, c.l., works ..... 100 lbs. 1.25 - —

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NYTRON

TRADE-MARK REG. U. S. PAT. OFF.

a totally different type of

Synthetic Organic Detergent

with an **EXCLUSIVE**

COMBINATION OF PROPERTIES

EXCEPTIONAL detergency

UNIQUE solubility range

UNCOMMON chemical stability

UNUSUAL resistance to hard water

DEPENDABLE wetting and emulsifying action

● **The exclusive** composition of NYTRON offers you a combination of properties never before available in any single synthetic organic detergent. As a result, NYTRON has already found unique application in a wide range of industries. For example . . . NYTRON is gentle enough for laundering sheer synthetic fabrics, yet powerful enough to clean greasy overalls or aid in the pickling of steel. Send for technical data and specific information on how NYTRON can be used to advantage in your business. Mail the coupon now.

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I want to know more about NYTRON, the entirely *new type* (patented) Synthetic Organic Detergent, and what it can do for my business. Please send me detailed non-technical information and specific technical data on NYTRON.

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Title .....

Company .....

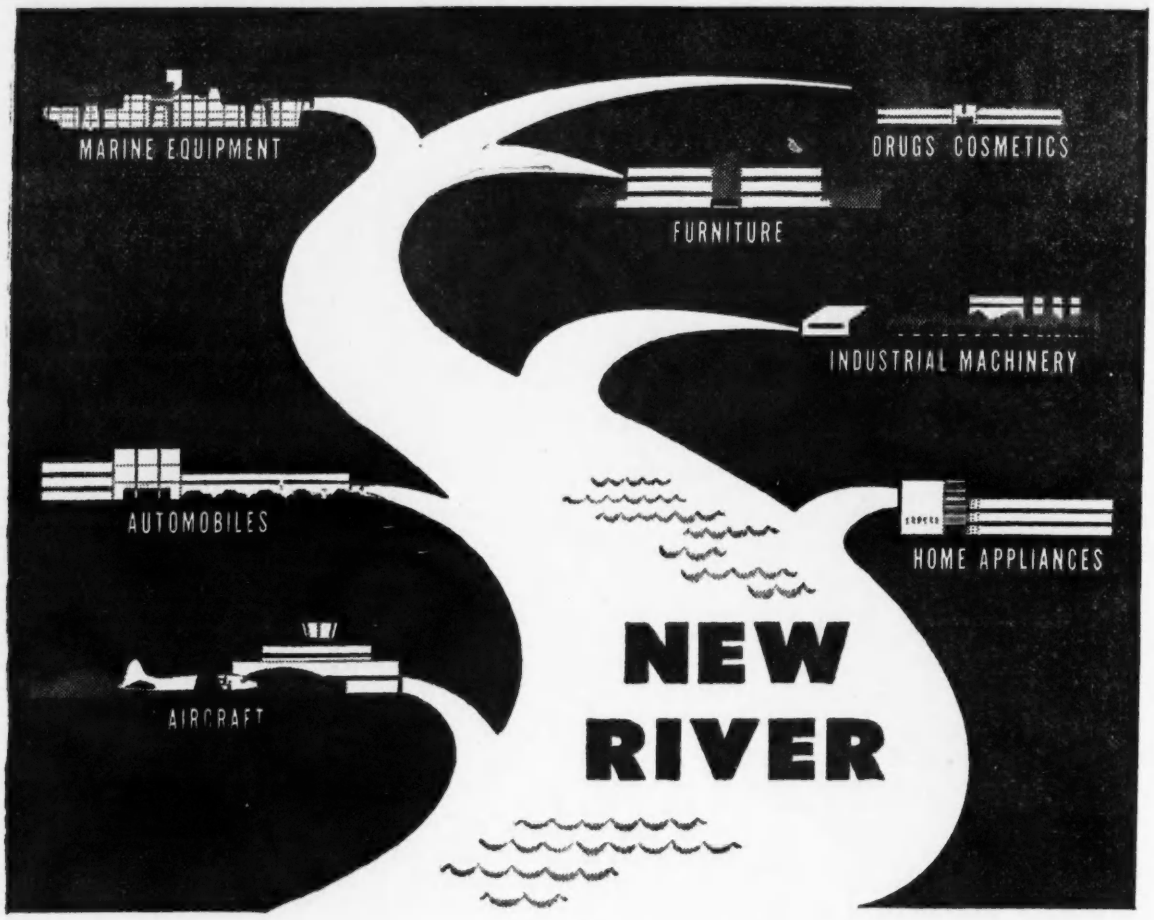
Type of Business .....

Address .....

OPDR-3

Soda Ash, Light—Sodium Sulphydrate

Soda ash, light, 53%, paper bgs., c.l., works..100 lbs. 1.40 - —
l.c.l., stock points....100 lbs. 2.65 - 4.42
bbls., c.l., works .....100 lbs. 1.90 - —
l.c.l., stock points....100 lbs. 3.15 - 4.92
bulk, c.l., works.....100 lbs. 1.15 - —
Caustic, flake, powd., 76%, dms., c.l., works..100 lbs. 3.45 - —
l.c.l., stock points ...100 lbs. 4.80 - 6.67
liquid, 50%, sellers' tanks, works, dry basis..100 lbs. 2.40 - —
70%, sellers' tanks, works, dry basis..100 lbs. 2.50 - —
50% rayon type, tanks, works, dry basis 100 lbs. 2.40 - 2.50
solid, 76%, dms., c.l., works .. 100 lbs. 3.05 - —
l.c.l., stock points....100 lbs. 4.40 - 6.27
Sal, bgs., c.l., ex car.....100 lbs. 1.55 - —
l.c.l., bgs., ex whse....100 lbs. 1.75 - —
Sodium acetate, anhyd., dms., works lb. .10 - .11½
NF, cryst., bbls., works .....lb. .08 - .09
Alginate, refined, water soluble, bbls., works..lb. .79 - —
semi-refined, bbls., works ...lb. .46 - —
NF, white, powd., dms., works, ton lots lb. 1.25 - —
smaller lots .. lb. 1.30 - 1.65
Alkylbenzene-sulphate, dms., wks., lb. .13 - —
Aluminate, 20,000 lbs., or more bgs 100 lbs. 8.50 - —
under 20,000 lbs., works.100 lbs. 9.50 - —
Antimoniate, bbls., c.l., dlvd. E lb. .31 - —
l.c.l., dlvd ..... .32 —
Arsenate, dealers, dms., c.l., works..lb. .12 - —
l.c.l., works.... .....lb. — - —
Sodium arsenite, 75%, dealers, dms., works..lb. .13¼- .14¼
solution, dms., works.....gal. .70 - 1.00
l.c.l., works.....lb. .11⅞- .12⅝
Benzoate, tech., bbls., 2 tons...lb. .39 - —
smaller lots .....lb. .40 - .41
USP, dms., 2 tons.....lb. .46 - —
smaller lots.....lb. .47 - .59
Bicarbonate, USP, gran., bgs., c.l., works..100 lbs. 2.35 - —
l.c.l., works .....100 lbs. 3.00 - —
powd., bgs., c.l., works.. 100 lbs. 1.95 - —
l.c.l., works.....100 lbs. 2.60 - —
Bichromate, contract, bgs., c.l., works..lb. .10 - —
l.c.l., works.....lb. .10½- .10¼
spot, c.l., bgs.....lb. .10½- —
l.c.l., bgs.....lb. .11¼- —
Sodium bichromate, in bbls., ¼c. higher.
Bifluoride, bbls., c.l., works, frt. equald..lb. .13¼- —
l.c.l., same basis.....lb. .13½- —
Bisulphate, bulk, c.l., works.. 100 lbs. 1.75 - —
dms., c.l., works.....100 lbs. 2.40 - —
l.c.l., works .....100 lbs. 2.90 - —
Bisulphite, powd., bbls., c.l., works..100 lbs. 3.50 - —
l.c.l., works.. .....100 lbs. 4.00 - —
solut. 35°, bbls., c.l., works.. 100 lbs. 1.10 - —
l.c.l., works.....100 lbs 1.50 - —
Borate (see Borax).
Bromide, USP, bbls., kgs., works. lb. .33 - .34
Cacodylate, NF, bots., dms.....lb. 9.00 -12.00
Carbonate (see Soda ash, Soda sal, Sodium monohydrate).
Sodium chlorate, cryst., dms., c.l., works..lb. .07½- —
l.c.l., works. .....lb. .07¾- .08¼
powd., kgs., works. .....lb. .09 - —
Chloride (see Salt).
Chlorite, tech., dms., works...lb. .75 - —
Chromate, bbls., dms., c.l., works, lb. .11¾- —
Citrate, USP, VIII, bbls.....lb. .21½- —
dms. .....lb. .22½- .26½
USP XIII, gran., bbls.....lb. .28 - —
dms. .....lb. .29 - .33
Sodium citrate, USP XIII, powd., prices ½c. higher.
Cyanate, dms., ton lots, works lb. .75 - —
smaller lots, works.....lb. .85 - —
Cyanide, 96-98%, dms.....lb. .17 - .17½
Diacetate, 33-35% acidity, bbls., works lb. .11½- .12½
anhydrous, dms., works.....lb. .14 - .15
Fluoride, white, 90%, bbls., c.l., works..lb. .10½- —
l.c.l., works.....lb. .10¾- —
95%, bbls., c.l., works.....lb. .10¾- —
l.c.l., works .....lb. .11 - —
Fluoroacetate, 8-oz. tins, 50 to a case, lb., works..lb.12.00 - —
2 to 25 tins to case, works..lb.12.00 -16.50
One oz. tins, 16 to 64 to case, works..lb.16.50 -21.00
Formate, bgs., c.l., dlvd..100 lbs. 7.10 - —
l.c.l. .....100 lbs. 8.15 - —
Glutamate, monobasic, kgs. ... lb. 1.54 - 1.56
Glycerophosphate, NF, flake, bbls., lb. 1.65 - 1.80
powder, bbls.....lb. 1.70 - 1.85
solution, 75%, cbys.....lb. 1.00 - 1.15
50%, cbys. .....lb. .62 - —
Hydrosulphide (see Sodium sulphydrate).
Sodium hydrosulphite, dms., c.l., frt. alld..lb. .24 - —
l.c.l., frt. alld.....lb. .24½- .25½
Hydroxide, tech. (see Soda, caustic).
USP, pellets, dms.....lb. .23 - —
Hypophosphite, NF, 50-lb. lots, dms..lb. .85 - .88
Hyposulphite, tech., cryst., bgs., c.l., works, frt. equald. 100 lbs. 3.50 - —
l.c.l., same basis.....100 lbs. 3.90 - —
pea cryst., bgs., metro area.. 100 lbs. 3.75 - —
Soda, hyposulphite, crystals in bbls., 40c higher; pea crystals, dms., 50c. higher.
USP (see Sodium thiosulphate).
Iodide, USP, dms., jars.....lb. 2.72 2.83
Lactate, edible, 50%, dms., c.l., works..lb. .18 - —
l.c.l., dms., works.....lb. .18¾- —
tech., 50%, dms., c.l., works..lb. .12½- .15
l.c.l., dms., works...lb. .13 - .15¾
Mandelate, dms.....lb. 3.25 3.35
Metaborate, octa-hydrate, gran., bgs., c.l., works..ton.73.00 - —
l.c.l., works.....ton.118.00 -123.00
tetrahydrate, c.l., bbls., works, ton.184.50 —
Sodium metaborate in bbls., $20 per ton higher.
Sodium metal, dms., works.....lb. .18½- —
Metanilate, bgs. .....lb. .57 - —
Metasilicate, anhyd., bbls., c.l., works..100 lbs. 4.25 - —
gran., bgs., c.l., works. 100 lbs. 3.25 - —
l.c.l. .....100 lbs. 4.35 - 4.60
bbls., c.l., works.....100 lbs. 3.65 - —
l.c.l. .....100 lbs. 4.75 - 5.00
Molybdate, anhyd., works.... lb. .51½- .63
Monohydrate, bgs., c.l., works. 100 lbs. 2.00 - —
l.c.l., works ..... 100 lbs. 2.45 - —
Naphthionate, bbls..... lb. .60 - .65
Nitrate, crude, dom., bgs., c.l., works..ton.48.50 - —
bulk, c.l., works .....lb.45.00 - —
imp., 100-lb. bgs., c.l., Atl Gulf, Pac.whse..ton.54.50 - —
bulk, c.l., same basis..ton.51.00 - —
Nitrite, 90%, bbls., c.l., works, frt. equald lb. .06¾- —
West coast ports 100 lbs. 8.00 - 8.05
l.c.l., dlvd..... 100 lbs. 8.90 -11.00
Orthosilicate, anhyd., dms., c.l., works..100 lbs. 5.25 - —
l.c.l., same basis.....100 lbs. 5.55 - 7.10
hydrated, flake, bbls., c.l., works, 100 lbs. 4.25 - —
l.c.l., works .....100 lbs. 5.50 - 5.75
Oxalate, neut., bgs., works.... lb. .09½- —
Pentachlorephenate, briquets, bgs., works, frt. equald..lb. .21½- —
powd., bgs., c.l., same basis..lb. .20 - —
l.c.l., same basis.....lb. .21 - 24
Perborate, USP, tech., bbls., c.l., works..lb. .18¾- —
l.c.l., works .....lb. .19¼- —
Peroxide, dms., c.l., dlvd. E. of Miss..lb. .16 - —
smaller lots, same basis...lb. .19 - —
Phenolsulphonate, USP 1X, gran., dms..lb. .33 - .34
powd., dms. .....lb. .36 - .37
Phosphate, dibasic, anhyd., bgs., c.l., works..100 lbs. 6.75 - 7.00
l.c.l., works.....100 lbs. 7.25 - 7.50
cryst., bgs., c.l., works. 100 lbs. 3.35 3.50
l.c.l., works.... 100 lbs. 3.75 3.90
USP, dried, powd., dms., works..lb. .20 - .20½
monobasic, anhyd., bgs., c.l., works..100 lbs.10.00 - —
l.c.l., works.... 100 lbs.12.85 —
tribasic, anhyd., bgs., c.l., works, frt. equald. 100 lbs. No stocks
l.c.l., same basis..100 lbs. No stocks.
cryst., bgs., c.l., works, frt. equald..100 lbs. 3.75 - —
l.c.l., same basis..100 lbs. 4.25 - —
Sodium phosphates in bbls., 40c. higher than bgs.
USP (see Sodium phosphate dibasic).
Phospho-aluminate, bgs., c.l., works..100 lbs. 7.00 - —
l.c.l., works .....100 lbs. 7.50 - 8.00
Prussiate, yellow, bgs ..... lb. .12½- —
Pyrophosphate, acid, bgs., c.l., works, frt. equald..100 lbs.10.00 - —
l.c.l., same basis ...100 lbs.10.50 -10.75
ferric, dms., 1,500 lbs., works, lb. .30 - —
smaller lots, works....lb. .31 - —
tetrabasic, anhyd., bgs., c.l., works, frt. equald..100 lbs. 6.90 - —
l.c.l. .....100 lbs. 7.40 - —
Ricinoleate, tech., bbls..... lb. No stocks.
Salicylate, USP, dms..... lb. .57 - .60
Sesquicarbonate, bgs., c.l., works. 100 lbs. 1.95 - —
bbls., c.l., works .....100 lbs. 2.45 - —
l.c.l., bgs., dlvd. zone 1. ... 100 lbs. 3.45 - —
zone 2 .....100 lbs. 3.60 - —
zone 3.....100 lbs. 3.85 - —
zone 4.....100 lbs. 4.25 - —
Sodium sesquicarbonate l.c.l. price zones are same as those for soda ash.
Sesquisilicate, bbls., c.l., works 100 lbs. 4.15 - —
l.c.l. dlvd .....100 lbs. 5.40 5.65
Silicate, 40°, turb'd., dms., c.l., works..100 lbs. 1.00 - —
l.c.l., works.....100 lbs. 1.25 - 1.35
tanks, works.....ton.16.00 -17.00
52° turbid., dms., c.l., works.. 100 lbs. 1.80 - —
l.c.l., works.....100 lbs. 2.05 2.15
tanks, works.....ton.32.00 - —
Silicofluoride, bbls., c.l., works lb. .05 - —
l.c.l., works ..... lb. .05½- .06
Stannate, dms., works, frt. alld, E. lb. .58 - .633
Stearate, tech., bbls., works....lb. .40 - —
USP, anhyd., bbls., works...lb. .51 - .56
Sulphanilate, bbls., works.....lb. .22 - —
Sulphate, NF VII, dried, gran., dms lb. .14½- —
tech., anhyd., bgs., c.l., works. 100 lbs. 2.10 - —
l.c.l., works .....100 lbs. 2.35 - 2.60
cryst. (see Glauber's salt).
USP, cryst., gran., bbls.....lb. .15 - .15¼
Sulphide, flake, bbls., c.l., works, frt. equald 100 lbs. 4.50 - —
l.c.l., same basis.....100 lbs. 5.00 - 5.25
fused, bbls., c.l., works, frt. equald..100 lbs. 4.00 - —
l.c.l., same basis....100 lbs. 4.50 - 4.75
Sulphite, anhyd., tech., powd. bbls., c.l., frt. equald.... 100 lbs. 2.50 - 2.75
l.c.l., same basis..100 lbs. 3.25 - 3.75
crystals, bgs., c.l., works.100 lbs. 3.60 - —
l.c.l., works.....100 lbs. 4.00 - —
bbls., c.l., works.....100 lbs. 4.00 - —
l.c.l., works .....100 lbs. 4.40 - —
powd., bbls., c.l., works..100 lbs. 6.50 - —
l.c.l., works.....100 lbs 7.00 - —
Sulphocyanide, CP (see Sodium thiocyanate).
Sulphoricinoleate, bbls.....lb. .51 - .61
Sulphydrate, flake, 70-72%, dms., c.l..lb. .05¾- —
l.c.l., works .....lb. .06¼- —
liquid, 45%, basis 100% tanks, works..ton.95.00 - —



Flowing into industrial plants today is an ever-widening river of new materials—*plastics*. And thousands of products made from these materials are flooding shops, homes, highways, and airways. Products ranging from bottle caps to doll strollers; radio dials to automatic dishwashers; safety helmets to car fenders; boat hulls to airplane fuselages. Products that enhance beauty . . . augment the utility of heavy-duty industrial machinery . . . form a sheath of protection for sensitive instruments.

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METASAP STEARATES are also utilized to make ceramics more lustrous and antifouling paints more resistant to marine growth . . . as thickening and suspension agents in paint and ink and as flatting agents in lacquer and varnish manufacture . . . and for many other applications.

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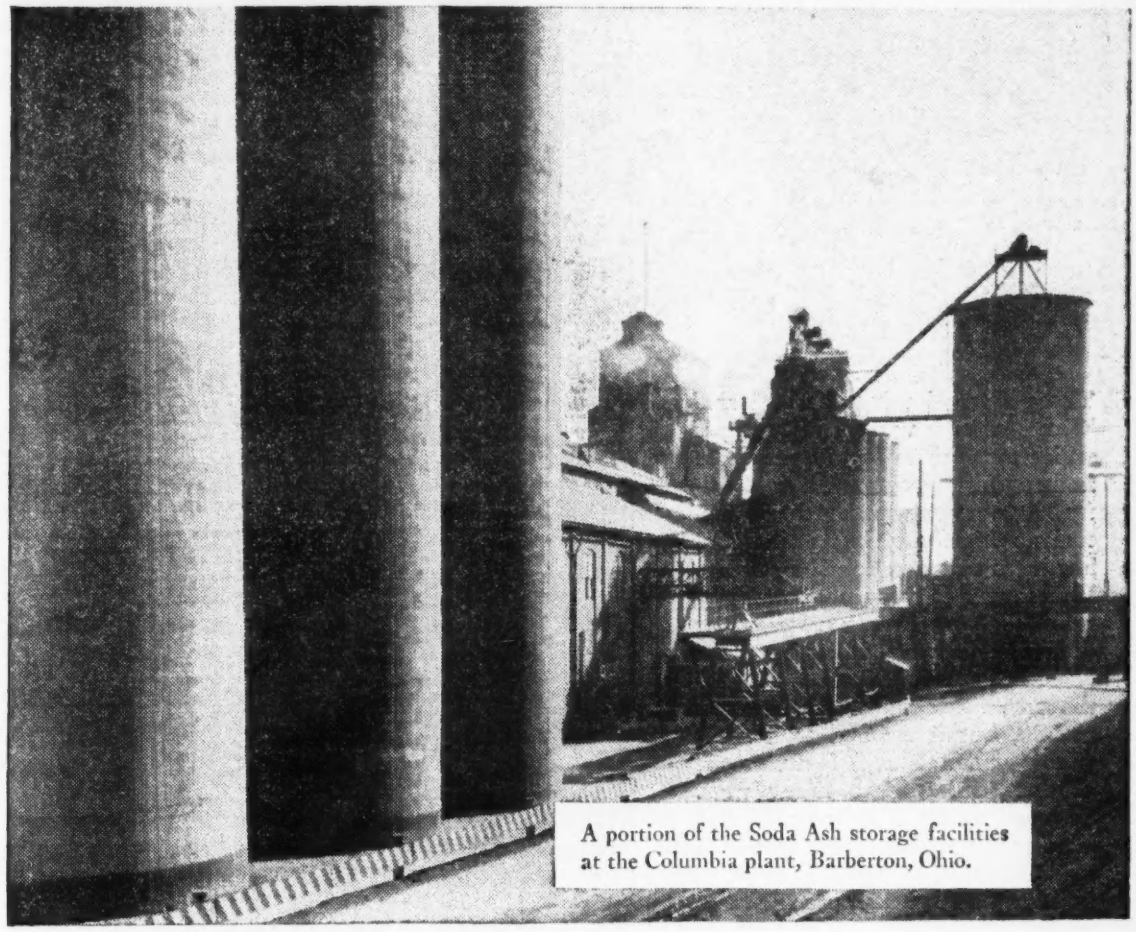
Sodium thiocyanate, CP, dms ... lb. .53 - .65
tech., dms., works ... lb. .30 - —
Thiosulphate, tech. (see Sodium hyposulphite).
USP, cryst., bbls. ... lb. .10 - .12
Titanate, cns., c.l., works ... lb. .10 - —
5 tons, works ... lb. .10¼ - —
1 ton or less, works ... lb. .10½ - .13½
Tripolyphosphate, bgs., c.l., works, frt. equald ... lb. 7.50 - —
l.c.l. ... lb. 8.00 - —
Tungstate, tech., bgs ... lb. 1.25 - 1.30
Sodium-ammonium phosphate, hbls., works, frt. equald ... lb. .22 - —
Sodium-carboxymethylcellulose—See CMC.
Sodium-cinchophen, bots., dms., works ... lb. 5.00 5.10
Sodium-formaldehyde, sulfoxylate, dlvd., dms ... lb. .24½ - .25
Sodium-sulpha drugs (see Sulpha name).
Sodium-titanium fluoride, fib. dms., c.l., works ... lb. .16½ - —
l.c.l., works ... lb. .17½ - .20
Sodium-zirconyl sulphate, fiber dms., 1,000 lbs. or more, works ... lb. .23 - —
less 1,000 lbs., same basis ... lb. .30 - —
Solvent naphtha, coaltar, tanks, works gal. .27 .30
high-flash, tanks, works gal. .27 .30
petroleum, 100 F. flash, tanks, Baytown, Tex gal. .27 - —
150 F. flash, tanks, same basis gal. .27 - —
Sorbitol, com'l, dms., c.l., works, lb. .25½ - —
l.c.l., works ... lb. .26 - —
crystalline, dms., works ... lb. .50 - —
solution, aqueous, dms., c.l., works, lb. .1355 - —
ton lots, works ... lb. .196 - —
Soybean meal, 41% bulk, Decatur, ton. 56.50 - 57.00
protein, chemically isolated, 40,000 lbs., works ... lb. .20 - —
20,000 lbs., works ... lb. .20¼ - —
smaller lots, works ... lb. .20½ - .24
mechanically refined, bgs., 40,000 lbs., works ... lb. .0575 - —
20,000 lbs., works ... lb. .0595 - —
smaller lots, works ... lb. .0615 - —
Sparteine sulphate, cns ... oz. 2.95 - —
Spikenard root, bls. ... lb. .40 - .45
Spruce extract, liq., reg., tanks works ... lb. .01¾ - —
powd., super, bgs., c.l., works, lb. .05¼ - —
Squaw vine, leaves, bls ... lb. .40 - .45
Squill, red, fortified, powd., bbls, boxes ... lb. 1.50 - 1.60
White, bls ... lb. .06 - .10
powd., bbls., bxs ... lb. .14 - .15
St. Ignatius beans, bgs ... lb. No stocks.
St. John's bread, edible, bls ... lb. .17 - .18
Stannous chloride (see Tin chloride, stannous).
Starch, corn, pearl, paper bgs., c.l. 100 lbs. 5.29 - —
Chicago ... 100 lbs. 4.67 - —
l.c.l. ... 100 lbs. 5.44 - —
powd., paper bgs., c.l. ... 100 lbs. 5.40 - —
Chicago ... 100 lbs. 4.78 - —
l.c.l. ... 100 lbs. 5.60 - —
Prices for corn starch in cotton bags, 17c. higher.
Potato, dom., bgs., c.l. ... lb. .0580 - .0615
l.c.l. ... lb. .07½ - —
Rice, bgs ... lb. .10½ - 10¾
Sweetpotato, bgs., c.l. ... lb. No stocks.
Wheat, bgs ... lb. .0593 - .0695
Stavesacre seed, bgs ... lb. .60 - .61
Stearin, oleo (see Oleostearin).
Stillingia root, bls. ... lb. .35 - .38
Stoneroot, bls ... lb. .07¼ - .08
Storax, USP, cs ... lb. 1.50 - 1.60
Stramonium leaves, bgs ... lb. .20 - .22
Seed, bgs ... lb. .20 - .22
Streptomycin, hospitals, vials ... gram. .80 - —
wholesalers, vials ... gram. .64 - —
Strontium bromide, NF, cns., dms., lb. .62 - —
Carbonate, 90%, bbls ... lb. .15½ - .16½
Chloride, tech., bbls ... lb. .22 - .24
Chromate, bgs., frt. equald ... lb. .43½ - .44
Iodide, jars, 25 lbs ... lb. 3.60 - —
Nitrate, bbls., c.l., works ... lb. .09½ - —
l.c.l., works ... lb. .10¼ - —
Oxalate, bbls., works ... lb. .42 - .44
Salicylate, NF, dms ... lb. 1.25 1.32
Sulphate, air-floated, 90% 325 mesh, bbls., works ton. 56.00 —
Strontium-calcium sulphide, phosphorescent, dms., works ... lb. 2.50 2.85
Strophanthin, NF, bots ... oz. 39.00 - —
Strophanthus seed, Kombe, bgs ... lb. 2.50 Nom.
Strychnine, NF, powd., cns., 100 ozs. oz. 1.25 - —
Phosphate, NF, 100 ozs ... oz. 1.14 - —
Sulphate, USP, powd., cns., 100 ozs. oz. 1.00 - —
Styrene, monomer, tanks, works ... lb. .15 - —
Styrolyl acetate, bots ... lb. 2.50 3.10
Sucrose octa-acetate, denat., bbls., l.c.l., works ... lb. .60 - —
tech., bbls., l.c.l., works ... lb. .55 - —
Sugar coloring (see Caramel coloring).
Sugar of milk (see Milk sugar).
Sulphabenzamide, dms., works ... lb. 4.25 - —
Sulphabenzamide sodium, dms., works ... lb. 4.25 - —
Sulphadiazin, USP, dms., works ... lb. 10.25 - 10.75
Sulphadiazin sodium, USP, dms., works ... lb. 11.25 - 11.75
Sulphaguanidin, USP, dms., works, lb. 4.50 4.60
Sulphamerazin, USP, dms., works ... lb. 10.25 - 10.75
Sulphamerazin, sodium, USP, dms., works ... lb. 11.25 - 11.75
Sulphanilamide, USP, powd., bots., works ... lb. 1.30 - 1.45
Sulphanilamide, 30-60 mesh, 10c. higher.
Sulphanilamidoquinoxaline, veterinary, dms ... lb. 20.00 - —
Sulphanilamide, acetyl, dms., works, lb. 4.25 - 4.60
Sulphapyridin, NF, powd., bots., tins, works ... lb. 7.00 7.20
Sulphapyridin-sodium, powd., bots., dms., works ... lb. 7.50 7.80
Sulphathiazole, USP, powd., dms., works ... lb. 3.50 4.00
Sulphathiazole sodium, USP, dms., works ... lb. 3.50 4.00
Sulphur, com'l, rubbermakers, bgs., c.l., works ... 100 lbs. 1.75 —
l.c.l., works ... 100 lbs. 2.10 2.45
crude, c.l., bulk, mines, contract, long ton. 18.00 —
vessel, f.o.b. Gulf ports, export, long ton. 22.00 —
flour, com'l, 90½%, bgs., c.l., works ... 100 lbs. 1.60 —
l.c.l., works ... 100 lbs. 1.95 2.30
precipitated, USP, bbls., kgs ... lb. .18 .20
refined, flour, light refined, USP, bgs., c.l., works ... 100 lbs. 3.00 —
l.c.l., works ... 100 lbs. 3.35 3.70
heavy, bgs., c.l., works ... 100 lbs. 2.80 —
l.c.l., works ... 100 lbs. 3.15 3.50
flowers, USP, bgs., c.l., works, 100 lbs. 3.25 - —
l.c.l., works ... 100 lbs. 3.60 - 3.95
Sulphur flowers in bbls., 75c. higher.
rock, bgs., c.l., works ... 100 lbs. 2.40 - —
l.c.l., works ... 100 lbs. 2.75 - 3.10
rolls, bgs., c.l., works ... 100 lbs. 2.70 - —
l.c.l., works ... 100 lbs. 3.05 - 3.70
rubbermakers' bgs., c.l., works, 100 lbs. 2.25 - —
l.c.l., bgs., works ... 100 lbs. 2.60 - 2.95

Sulphur chloride, 55-gal. dms., c.l., works ... lb. .03¾ - —
l.c.l., works ... lb. .04¾ - —
10-gal. dms., l.c.l., works ... lb. .08¼ - —
Dioxide, liquid, com'l, cyls., works lb. .10 - —
multi-unit cars, works ... lb. .055 - —
tanks, works ... lb. .0465 - —
refrigeration, cyls., l.c.l., wks. lb. .18 - —
Sumac bark, 28%, grd., bgs., ex dock ton. 85.00 - —
Extract, No. 1, bbls ... lb. .10½ - —
No. 2, bbls ... lb. .09 - —
crystals, bbls. ... lb. .40 - —
stainless, bbls. ... lb. .14½ - —
Leaves, 30%, bgs., ex dock ... ton. 83.00 - —
Superphosphate run-of-pile, under 22% a.p.a. pulv., bulk, Baltc unit-ton. .76 .77
triple, 48% or more, a.p.a., pulv., bulk, Tampa, Fla ... unit-ton. .83 - —
Prices on 48% triple superphosphate in other states and D.C. are per unit-ton plus frt. charges from E. Tampa, Fla. Superphosphate, gran., 2c. per unit-ton higher than pulverized.
Sweet basil, bls ... lb. 1.50 - 1.70

T

Talc, dom., ordinary grd., c.l., New York, works ton. 21.00 —
l.c.l., works ... ton. 22.50 - 24.50
Calif., bgs., c.l., works ... ton. 22.00 - 30.00
Vermont, bgs., c.l., works ton. 14.00 —
l.c.l., works ... ton. 17.50 —
Talc, dom., fibrous, New York, off-color, grd., bgs., c.l., works ton. 24.00 - —
l.c.l. ... ton. 26.50 - 28.00
88.95-99.95%, grd., bgs., c.l., works ... ton. 21.00 - —
l.c.l., works ... ton. 24.50 - —
98-99.5%, grd., bgs., c.l., works ton. 23.00 - 28.00
l.c.l., works ... ton. 27.00 - 32.00
imp., Canada, grd., bgs., c.l ton. 35.00 - 45.00
Tallow, inedible, extra, loose, dlvd. lb. .05½ - —
fancy, loose ... lb. .05¼ - —
special, loose ... lb. .04¾ - —
sulphonated, 25%, dms ... lb. .07 - .07½
50%, dms ... lb. .08½ - .09
Tamarinds, bbls. ... lb. .12 .15
Tankage, animal, feeding, 9-11% ammon., bulk unit-ton. 7.60 - —
Chicago ... unit-ton. 7.75 - —
fertilizer, 9% ammon., 10% b.p.l., Chicago unit-ton No stocks
10-11% ammon., 15% b.p.l., bulk unit-ton. No stocks.
Tansy leaves, bls ... lb. .29 - .30
Tapioca flour, high grade, bgs ... lb. 10½ - 11¼
medium grades, bgs ... lb. .09 - .09¾
Java, bgs ... lb. No stocks.
Tar acid oil, 15-18%, dms., c.l., works, frt. equald gal. .46 - —
l.c.l., works ... gal. .49 - —
tanks, works ... lb. .38 - —
25-28%, dms., c.l., works gal. .53 - —
l.c.l., works ... gal. .56 - —
tanks, works ... gal. .45 - —
Tar coal (see Coaltar).
Pine (see Pinetar).

Tara pods, bgs., c.l., ex dock U. S. ports long ton. No prices.
powd., bgs., c.l., same basis long ton. 225.00 Nom.
Tarragon herb, bgs. ... lb. .45 .50
Leaves, bgs. ... lb. .95 1.00
Tartar emetic, tech., gran. or powd., bbls., kgs lb. .49 - —
dms. ... lb. .50 - .54
USP, powd., bbls., dms., kgs lb. .54 - .57
Terpin hydrate, com'l, bbls., c.l lb. .24½ - —
l.c.l. ... lb. .25 - .25½
NF, cryst., bbls., dms ... lb. .90 - .95
powd., bbls., dms ... lb. .95 1.00
Terpineol, Alpha (see A).
com'l, dms., c.l., South ... lb. 13½ - —
l.c.l., South ... lb. .14 - —
tanks, South ... lb. .13 - —
prime, dms ... lb. .39 .97
Terpinglycol ether, dms., c.l., works, lb. .19½ - —
l.c.l., works ... lb. .20 - —
tanks, works ... lb. .19 - —
Terpinyl acetate, extra, cns., dms, lb. .63 - 1.03
prime, cns., dms ... lb. .55 - .95
Terra alba (see Gypsum).
Tetrachloroethane, dms., works lb. .08 .08½
Tetrachloroethylene, USP, 55-gal. dms., works lb. .20½ - .21½
smaller dms., works lb. .23½ - .25
tech. (see Perchloroethylene).
Tetraethyl orthosilicate dms., works, lb. .70 - —
Pyrophosphate, dms., works lb. .80 - —
Tetraethylenepentamine, dms., c.l., works lb. .51½ - —
l.c.l., works ... lb. .52 - —
tanks ... lb. .50 —



A portion of the Soda Ash storage facilities at the Columbia plant, Barberton, Ohio.

Here's why it pays you to use Columbia Soda Ash — Light or Dense

Made for Your Requirements—Columbia's original product; manufactured, since 1899, with intimate knowledge of the specific needs of all types of industrial applications.

Controlled Quality—Eliminates variables which can cause production difficulties. Highest standards maintained to produce Soda Ash which always tests 99-100% Na_2CO_3, with an Na_2O equivalent of 58% plus.

Precise Grading—Density, for the grade specified, is uniform in particle size. Your production methods require no adjustments for Columbia Soda Ash.

Check your Soda Ash requirements with Columbia . . . you'll receive excellent service — another important factor in your operations.

COLUMBIA CHEMICALS

CHICAGO BOSTON ST. LOUIS PITTSBURGH
NEW YORK CINCINNATI CLEVELAND PHILADELPHIA
MINNEAPOLIS CHARLOTTE SAN FRANCISCO

PAINT · GLASS · CHEMICALS · BRUSHES · PLASTICS

PITTSBURGH PLATE GLASS COMPANY

Tetrapotassium Phosphate—Vitamin A

Tetrapotassium phosphate (see Potassium phosphate).
Tetrasodium pyrophosphate (see Sodium pyrophosphate).
Thallium sulphate, 99%, bots., dlvd. lb. 15.00 - 17.50
Theobromine, bots., kgs. lb. 5.25 - —
Salicylate, fib. dms. lb. 5.00 - 5.25
with sodium acetate, USP, fib. dms lb. 4.00 - 4.45
Sodio-Salicylate, fib. dms lb. 3.15 - 3.50
Theophylline, USP, bots., kgs lb. 7.50 - 7.65
Thiamine hydrochloride, USP, dms., 100 grams kilo. 160.00 - —
Thiocarbanilide, dms lb. .24 - —
Thiodiphenylamine (see Phenothiazine).
Thiouracil, dms., works lb. 5.50 - 5.60
Thiourea, tech., dms., c.l., works lb. .38 - —
l.c.l., dms., works lb. .40 - —
Thorium nitrate, cs., works lb. 3.50 - —
Threonine, dextro-laevo, 100 grams 115.00 - —
Thyme, French, bgs lb. .17 - .17½
futures, bgs lb. .14¾ - .15
Spanish, bls lb. .09½ - .10
Thymol, USP, kgs lb. 3.65 - 3.75
Iodide, NF, dms. lb. 6.80 - 6.90
Timbo root (see Cube root).
Tin chloride (stannous), anhyd., dms. lb. .97 .98
Crystals, hydrous, bgs., cons., works lb. .71½ - —
Metal, Bolivian lb. 1.03 - —
Straits lb. 1.03 - —
Oxide, bbls. lb. 1.01 - 1.02
Tetrachloride, anhyd., dms., wks. lb. .60 .62
Titanium dioxide, anatase, chalk-resistant, bgs., c.l., dlvd. lb. .19½ - —
l.c.l., dlvd lb. .20 - .20½
plain, bgs., c.l., dlvd lb. .19½ - —
l.c.l., dlvd lb. .20 - .20½
rutile, natural, granular, bgs., c.l., works lb. .06¼ - —
l.c.l., works lb. .06½ - —
milled, bgs., c.l., works lb. .06½ - —
l.c.l., works lb. .06¾ - —
nonchalking, bgs., c.l., dlvd. E. lb. .21½ - —
l.c.l., dlvd. E lb. .22 - .22½
Hydride, cns., works lb. 7.00 - 8.00
Pigment, calcium-rutile base, bgs., c.l., dlvd lb. .07½ - .07¾
l.c.l., dlvd lb. .08 - .08¼
Titanium dioxide and pigment in bbls., ¼c. higher; Pac. coast c.l., dlvd., l.c.l., ex whse ½c. higher.
Tetrachloride, CP, 55-gal. dms lb. .54½ - .55
smaller, pkgs., works lb. .65 - 1.22
technical, 5-gal. dms., works lb. .32 - —
smaller pkgs., works lb. .40 - 1.00
Tolu balsam, cns lb. 2.50 - 2.75
Toluene (see Toluol).
Tolidin base (see Orthotolidin.)
Toluol, coaltar, industrial and nitration, tanks, works:—
Bethelehem, Pa. gal. .24½ - —
Birmingham, Ala. gal. .23¼ - —
Chicago district gal. .26½ - —
Cleveland district gal. .26 - —
Dangerfield, Tex. gal. .27 - —
Hamilton, Ohio gal. .25 - —
Johnstown, Pa. gal. .23 - —
Lackawanna, N. Y. gal. .26 - —
Philadelphia, Pa. gal. .29 - —
Pittsburgh district gal. .23 - —
Toluol, coaltar, industrial and nitration, tanks, works. Sparrows Point, Md gal. .24½ - —
St. Louis, Mo gal. .28 - —
Syracuse, N. Y gal. .27 - —
Terre Haute, Ind. gal. .28 - —
Woodward, Ala gal. .25 - —
Wyandotte, Mich. gal. .27 - —
Youngstown, Ohio gal. .23½ - .25

Prices on 2° toluol from petroleum, tanks, delivered (maximum freight allowances in parentheses) are:—Ark., 30c. (3¾c.); Chicago, 30c. (2¾c.); Del.-Md.-D.C., 30c. (3c.); Detroit, 30c. (1 8/10c.); E. Tenn., 30c. (4½c.); La., 30c. (3¾c.); N. C., 30c. (4¼c.); N. E. 30c. (2¼c.); N. J., 30c.; N. Y., 30c. (3c.); Pa., 30c. 3c.); S. C., 30c. (5¼c.); Va., 30c. (2¾c.); W. Tenn., 30c. (3¾c.), and W. Va., 30c. (3c.).

Tonga, 50% bark and vine, bls. lb. .80 - .95
Tonka beans, Angostura, cks lb. 1.75 - 1.80
Brazilian, cs lb. .85 - .90
Surinam, cs. lb. .85 - .90
Toxaphene, dms., works, c.l. lb. .24 - —
truckloads, works lb. .24 - —
ton to truckloads, works lb. .27 - —
less than tons, works lb. .30 - —
Totaquine, USP, 100-oz. lots oz. .52 - —
Triacetin, dms., works lb. .38½ - .43
Tributyl citrate, dms lb. .41 .43
smaller containers lb. .46 - .52
Phosphate, dms., c.l., frt. alld lb. .56½ - —
l.c.l. lb. .57½ - —
smaller containers lb. .71 - —
Tributylamine, dms., c.l., works lb. .78 - —
l.c.l., works lb. .81 - —
Trichlorbenzene, dms., c.l., works, frt. alld. or equald lb. .10 - —
l.c.l. lb. .11 - —
tanks lb. .08½ - —
Trichloroethane, dms., c.l., wks lb. .12 - —
l.c.l., works lb. .13 - —
tanks, works lb. .11 - —
Trichloroethylene, tanks, c.l., frt. alld., zone 1 lb. .10½ - —
Zone 2 lb. .11 - —
Zone 3 lb. .11¼ - —
zone 4 lb. .11½ - —

Trichloroethylene dm., c.l., prices ½c. higher l.c.l. 1¼c. higher. Zones are—(1) Conn., Del., Ill., Ind., Ia., Ky., Me., Md., Mass., Mich., Minn., Mo., N. J., N. H., N. Y., N. C., Ohio, Pa., R. I., Tenn., Vt., Va., W. Va., Wis., Omaha, K. C., Kan.; (2) Ala., Ark., Fla., Ga., Kan., La., Miss., Neb., N. D., Okla., S. C., S. D.; (3) Col., Mont., (E) N. M., Tex., Wyo.; (4) Ariz., Cal., Idaho, Mont. (W) Nev., Ore., Utah, Wash.

Tricresyl phosphate, coaltar, dms., c.l., dlvd lb. .38 - —
l.c.l., dlvd lb. .38½ - —
tanks, dlvd lb. .37 - —
petroleum, dms., c.l., dlvd lb. .38 - —
l.c.l., dlvd lb. .38½ - —
tanks, dlvd lb. .36½ - .37
Triethanolamine, dms., c.l., frt. alld. E lb. .23 —
l.c.l., same basis lb. .24 —
tanks, same basis lb. .21½ - —
Triethyl citrate, dms lb. .34 .36
smaller containers lb. .39 .45
Phosphate, dms., works, c.l. lb. .38 —
dms., l.c.l., same basis lb. .39 —
tanks, same basis lb. .37 —
Triethyleneglycol, dms., c.l., frt. alld. E lb. .20½ —
l.c.l., same basis lb. .21½ - —
tanks, same basis lb. .19 —
Triethylenetetramine, dms., c.l., works lb. .51½ - —
l.c.l., works lb. .52 - —
tanks lb. .50 —
Trimethylamine, 25%-40%, dms., c.l., works, basis 100% lb. .38 - —
l.c.l., works, basis 100% lb. .38½ - .39
tanks, works, basis 100% lb. .33 —
Tripentaerythritol, bgs., l.c.l., works. lb. .37 .39
Triphenyl phosphate, bbls., c.l., frt. equald lb. .31 - —
l.c.l., frt. equald lb. .32 - —
Triphenylguanidine, bbls., works lb. .90 - —
Tripoli, air-floated, bgs., c.l., works. lb. .0175- —
double-grd., bgs., c.l., works lb. .016 - —
single-grd., bgs., c.l., works lb. .015 - —
Trisodium phospnate (see Sodium phosphate, tribasic).
Tryptophane, dextro-laevo, fib. ctns., works kilo. 207.00 - 242.00
Tuba root (see Cube root).
Tungsten metal, powd., 99.9%, dms. works lb. 4.75 - —
Oxide, kgs., works lb. 2.85 - —
Tumeric root, Alleppey, bls, futures, lb. .25½ - .26
Haitian lb. .10 - .11
Madras, bgs lb. .18½ - .19
Turpentine, gum (see Naval Stores Protective Coatings market).
Sulphate, ret. dms., East gal. .50 —
Wood dest. dist., dms., incl., c.l., works, South gal. .40 .53
l.c.l., same basis gal. .41 .55
N. Y. whse gal. .55 —
Turpentine, wood, steam-dist., dms., incl., c.l., works gal. .58 - —
l.c.l., ex whse., NYC gal. .64 - —
tanks, works gal. .34 - —
Tyrothricin, bots. gram. 1.15 1.25

U

Urethane, USP, dms lb. 1.75 - —
Unicorn root, false (see Helonias root).
True (see Aletris root).
Uranium oxide, black, bgs lb. 2.55 - —
yellow, kgs. lb. 1.65 - —
Urea, dom., 46% N, bgs., c.l., wks. lb. .04¼ - —
l.c.l., works lb. .04¾ - —
Fertilizer compound, 42% N, bulk, c.l., 30 tons, frt. alld. Kan., Neb., N. Dak., Okla., S. Dak., Tex. and east ton. 89.00 —
46% N, bulk, c.l., 40 tons, frt. alld. Colo., Mont., Wyo., and west ton. 98.00 —
paper bgs., c.l., 30 tons, frt. alld. Kan., Neb., N. Dak., Okla., S. Dak., Tex., and east ton. 93.00 - —
40 tons, frt. alld. Colo., Mont., Wyo., and west. ton. 102.00 - —
Urea-ammonia liquor, A and B grades, N basis, Belle, W. Va ton. 100.00 - —
C and D grades, same basis. ton. 98.50 - —
Uva ursi leaves, bls lb. .11 .12

V

Valerian root, Belgian, NF, bls lb. .37 .40
Indian, bls. lb. .32 - .34
Valine, dextro-laevo, dms., works lb. 22.50 - 27.50
Valonia beards, bgs., ex dock ton. 90.00 Nom.
Cups, bgs., ex dock ton. 71.00 - 72.00
Extract, powd., bgs., ex dock, duty extra lb. .14½ Nom.
Vanadium pentoxide, CP, bgs., cns., works lb. 7.00 - —
tech., dms., works lb. 1.20 - —
Vanilla beans, Bourbon, tins lb. 4.50 - 5.25
Mexican, cuts, tins lb. 4.50 4.75
whole, tins lb. 5.00 6.00
Tahiti, tins lb. 3.00 3.25
Vanillin, ex eugenol, tins, 25 lbs lb. 4.00 —
smaller lots lb. 4.05 —
ex guaicol, tins, 25 lbs lb. 3.00 - —
smaller lots lb. 3.05 - 3.15
ex lignin, tins, 25-lb. lots lb. 3.00 - —
smaller lots, tins lb. 3.05 - 3.15
Vinyl acetate, 55-gal. dms., works lb. .16½ - .17⅛
5-gal. cns., works lb. .30 - —
tanks, works lb. .15 - —
Trichloride (see Trichloroethane)
Ether (see Ether, divinyl).
Vinylpyridin, ret. dms., works lb. 1.50 - —
Viosterol, bots., 10 billion USP units. mill. units. .025 - —
1 billion USP units mill. units. .03 - —
less than 1 billion USP units. mill. units. .035 - —
Vitamins, A concentrate (see Oil, fishliver).
B_1 (see Thiamine hydrochloride).
B_2 (see Riboflavin).
B complex, natural (see Rice bran and Yeast).
Vitamin B_6 (see Pyridoxin).
C (see Acid, ascorbic).
D (see Oils, codliver and fishliver, Calciferol and Viosterol).
D_2 (See Calciferol).
E (see Alphatocopherol and Oil, wheatgerm).
G (see Riboflavin).
P-F (see Acid, nicotinic, and Nicotinamide).
H (see Biotin).
Violet, methyl toner (see M).
V.M.P. naphtha (see Petroleum naphtha).
Vitamin A (see Oils, codliver, fishliver).

PETROLITE

Crown Quality

MICRO-CRYSTALLINE

WAXES

These Petrolite Microcrystalline Waxes offer a variety of features which make them highly adaptable in many formulations. Crown Quality 200, a brown wax, has the characteristic high melting point and hardness common to all Petrolite Waxes, yet is very economically priced. Whenever dark coloration is desirable, Crown Quality 200 is a "best bet." Crown Quality 500 has the same melting point and hardness as 200, but is refined to a light yellow-amber color. It is a versatile product, suitable to many uses. Crown Quality 700 has a higher melting point and is much harder than 200 and 500. It is even lighter in color than 500, and is completely odorless. Crown Quality 700 is particularly suitable in the paper field, especially as an additive to raise the melting point or increase the hardness of paraffin or amorphous waxes.

200
500
700

Featuring

HIGH MELTING POINTS
LOW PENETRATION

SPECIFICATIONS	Melting Point °F	Penetration with 100 grams	Color N.P.A.	Odor
200	185/190	10 Maximum	Brown	—
500	185/190	10 Maximum	2½ Maximum	Exhaustive laboratory tests have shown that recent revisions in the Petrolite refining procedures have resulted in the complete absence of all odor and taste.
700	190/195	5 Maximum	2 to 2½	

If you have a wax polish problem, ask for complete information on Crown Quality 1035 and the Petrolite EMULSIFIABLE WAXES, 23 and 36. Samples and complete information are yours for the asking.

SHIPMENTS IN QUANTITY IMMEDIATELY AVAILABLE

Petrolite

PETROLITE *Crown Quality* WAX

Petrolite Corporation, Ltd. ★ WAX DIVISION

30 Broad Street, New York 4 ★ REFINERY: Box 390, Kilgore, Texas

PW 49-B

W

Wahoo root bark, bls.	lb.	1.80 -	1.85
Tree bark, bls		.55 -	.75
Wattle bark, fair average, nr E. Afr., bgs., ex dock	ton.	83.00 -	—
merchantable, bgs., ex dock	ton.	50.00 -	—
extract, liquid, 35% tannin, bbls., works	lb.	.03½-	—
tanks, works	lb.	.08 -	—
solid, E. Afr., 61% tannin, ex dock, duty extra	lb.	.09¼-	.09¼
S. Afr., 62% tannin, ex dock, duty extra	lb.	.09½-	.09¼
Wax, amorphous (see Wax, microcrystalline).			
Bayberry, bgs	lb.	.52 -	.55
Bees, bleached, USP, white, bricks, cs	lb.	.69 -	.70
slabs, bgs.	lb.	.67 -	.68
crude, African, bgs	lb.	.51 -	.52
western hemisphere, bgs.	lb.	.50 -	.51
refined, yellow, bricks, cs	lb.	.59 -	.60
slabs, bgs.	lb.	.57 -	.58
Candelilla, crude	lb.	.52 -	.53
refined, bgs	lb.	.56 -	58
Powdered candelilla, 20 mesh, 5c. per lb. extra; 80 mesh, 5½c.; 100-200 mesh, 6c.			
Carnauba, chalky, No. 3, bgs., ton lots	lb.	.67 -	.69
North Country, No. 2, ton lots	lb.	.77 -	.79
lots	lb.	.77 -	.79
No. 3, crude, bgs., ton lots	lb.	.75 -	.76
refined, bgs., ton lots	lb.	.77 -	.79
yellow, No. 1, bgs., ton lots	lb.	1.03 -	1.05
No. 2	lb.	1.01 -	1.03
Powdered carnauba price same as powdered candelilla.			differentials
Ceresin, dom., 132°-136° m.p., bgs.	lb.	.16 -	16½
138°-140° m.p., bgs	lb.	.18 -	.18½
158°-162° m.p., bgs	lb.	.22 -	.23
Japan, bgs	lb.	.06	Nom.
Microcrystalline, 170°-175° m.p., ASTM, amber, ctns., 30 tons yearly contract, group 3, works	lb.	.14¾-	—
smaller lots, same basis	lb.	.15 -	.16
black, ctns., 30 tons, same basis	lb.	.13¼-	—
smaller lots, same basis	lb.	.13½-	.14½
170°-175° m.p., ASTM, white, ctns., 30 tons, same basis.	lb.	.25¾-	—
smaller lots, same basis	lb.	.26 -	.27
190°-195° m.p., ASTM, amber, ctns., 30 tons, same basis.	lb.	.21¼-	—
190°-195° m.p., ASTM, black, ctns., 30 tons, same basis	lb.	.19¾-	—
smaller lots, same basis	lb.	.20 -	.21
white, ctns., 30 tons, same basis	lb.	.34¼-	—
smaller lots, same basis	lb.	.34½-	.35½
Montan, crude, bgs	lb.	.31 -	.33
Ouricury, crude, bgs., ton lots	lb.	.71	Nom.
refined, bgs., ton lots	lb.	.82 -	.84
Ozokerite, fabricated, black, 189-190 m.p., bgs	lb.	.36 -	.38
182-183 m.p., bgs	lb.	.31 -	.33
171-172 m.p., bgs	lb.	.27 -	.29
white, 178-183 m.p., bgs	lb.	.33½-	.34½
170-172 m.p., bgs	lb.	.28¾-	.29¾
yellow, 180-190 m.p., bgs	lb.	.48 -	.50
182-183 m.p., bgs	lb.	.43 -	.45
178-183 m.p., bgs	lb.	.26½-	.27¼
170-172 m.p., bgs	lb.	.23¾-	.25
Spermaceti, blocks, cs	lb.	.35 -	.36
cake, cs	lb.	.36 -	.37
White lead (see Lead, white).			
White pine bark, rossed, bls	lb.	.17	.20
White precipitate, USP, powd., dms., 50 lbs	lb.	2.00 -	—
Whiting, limestone, dry-grd., 325 mesh, bgs., 40 tons St. Louis, works	ton.	11.00 -	—
40 tons, N. Y. whse	ton.	19.00 -	—
smaller lots, St. Louis, works	ton.	13.50 -	—
wet-grd., air-floated, 99%, 325 mesh, bgs., c.l.	ton.	14.50	-27.50
200 mesh, bgs., c.l.	ton.	No prices	
90% 200 mesh, bgs., c.l.	ton	No prices.	
water-floated, extra gilders, bgs., c.l.	ton.	14.50 -	—
gilders, bgs., c.l.	ton.	No prices.	
putty grade, bgs., c.l.	ton.	13.00 -	—
surface treated, bgs., c.l., Ohio works	ton.	30.00	—
Paris white, bgs., c.l.	ton.	25.00	-31.00
l.c.l.	ton.	25.00	-29.00
Precipitated, bgs., c.l.	ton.	18.00	-20.00
l.c.l.	ton.	22.00	-25.00
Wild cherry bark, thick, natural, bls	lb.	.06	.07
rossed, bls	lb.	No prices.	
thin, natural, bls	lb.	.16 -	.17
rossed, bls	lb.	.24 -	.25
Wild indigo root, bls	lb.	.30 -	.31
Wild yam root, bls.	lb.	.16 -	.17
Witch hazel leaves, bls	lb.	.15 -	.16
Woodflour, 40 mesh, bulk, c.l., works, East	ton.	32.00 -	—
l.c.l., same basis	ton.	40.00 -	—
60 mesh, bulk, c.l., same basis.	ton.	37.00 -	—
l.c.l., same basis	ton.	45.00 -	—
80-100 mesh, bulk, c.l., same basis.	ton.	40.00	-45.00
l.c.l., same basis	ton.	50.00	-55.00
Woodflour in bgs. extra, returnable.			
Woolfat (see Lanolin).			
Wormseed, American, bgs	lb.	.15	.16
Levant, bgs	lb.	4.15 -	4.25
Wormwood, leaves, bls	lb.	.40 -	.45

X

Xanthorrhiza root, bls	lb.	.28 -	.30
Xylene (see Xylol).			
Xylenol, 5°-7°, ret. dms., c.l., works, frt. equald	lb.	.21¾-	—
l.c.l., same basis	lb.	.22¼-	—
tanks, same basis	lb.	.21 -	—
45°, dms., l.c.l., frt. equald	lb.	.24 -	—
fractions, ret. dms., c.l., same basis	gal.	1.56 -	—
l.c.l., same basis	gal.	1.59 -	—
tanks, same basis	gal.	1.50 -	—
Xylidins, mixed, dms	lb.	.45 -	.50
Xylol, coaltar, industrial, tanks, works —			
Bethlehem, Pa	gal.	.26 -	—
Birmingham, Ala	gal.	.23¼-	—
Chicago district	gal.	.26½-	—
Cleveland district	gal.	.28 -	—
Dangerfield, Tex	gal.	.27 -	—
Hamilton, Ohio	gal.	.25 -	—
Johnstown, Pa	gal.	.24 -	—
Lackawanna, N. Y.	gal.	.24 -	—
Pittsburgh district	gal.	.23 -	—
Sparrows Point, Md.	gal.	.26 -	—
St. Louis, Mo	gal.	.28 -	—
Syracuse, N. Y.	gal.	.27 -	—
Terre Haute, Ind.	gal.	.28 -	—
Woodward, Ala.	gal.	.25 -	—
Wyandotte, Mich.	gal.	.27 -	—
Youngstown, Ohio	gal.	.23½-	.25

Prices on 3 to 10° xylol from petroleum, tanks, delivered (maximum freight allowances in parentheses) are:—Ark., 30c. (3¾c.); Chicago, 30c. (2¾c.); Del.-Md.-D. C., 30c. (3c.); Detroit, 30c. (1 8/10c.); E. Tenn., 30c. (4½c.); La., 30c. (3¾c.); N. C., 30c. (4¼c.); N. E., 30c. (2¼c.); N. J., 30c.; N. Y., 30c. (3c.); Pa., 30c. (3c.); S. C., 30c. (5¼c.); Va., 30c. (2¾c.); W. Tenn. 30c. (3¾c.), and W. Va., 30c. (3c.).

Y

Yara, yara, cns	lb.	2.00 -	2.25
Yeast brewer's dry, USP, 50 B units, per gram, 100-lb. dms	lb.	.44 -	.46
90 B units, per gram, 100 lb. dms	lb.	.49 -	.51
200 B units, per gram, 100 lb. dms	lb.	.53 -	.55
300 B units, per gram, 100 lb. dms	lb.	.57 -	.59
Yellow, barium chromate, CP, bgs., l.c.l., dlvd. N. of Tenn. and N. C., E. of Miss., including Davenport, Minneapolis, Rock Island, St. Louis St. Paul	lb.	.32	—
Barium chromate yellow price differentials in other States and city zones are those for chrome yellow below.			
Benzidin, bbls., dlvd	lb.	1.60	1.70
Cadmium, CP, all shades, bbls., frt. alld. E. of Rockies	lb.	2.55 -	—
Lithopone, all shades, bbls., frt. alld. E. of Rockies	lb.	.95 -	—
Cadmium yellows, Los Angeles and San Francisco, ex whse. l.c. per lb. higher.			
Chrome, CP, bbls., dlvd. N. Tenn. and N. C. E. of Miss., including Davenport, Minneapolis, Rock Island, St. Louis, St. Paul, contracts	lb.	.33 -	—
Dlvd. Ala.; Fla., Ga., La., (Shreveport) 1¼c. higher; Miss., N. C., S. C., Tenn., Dallas, Tex., 1¼c. higher; Ft. Worth, Tex. 1½c. higher; El Paso, Tex., 2c. higher; Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph, 1.6c. higher dlvd. Pac. Coast; for Denver, Pueblo, Salt Lake City, Wichita prices are equalized with Chicago.			
Yellow, hansa, bbls., same basis as chrome	lb.	1.60 -	1.70
Primrose, bbls., same basis	lb.	1.90 -	2.10
Iron oxide natural, bgs., c.l., works	lb.	.0141-	.0250
l.c.l., works	lb.	.0166-	.0275
French type, bgs., c.l.	lb.	.04½-	—
l.c.l.	lb.	.04¾-	—
Peruvian type, bgs., c.l.	lb.	.0185-	.0210
synth. bgs., c.l. works	lb.	.09 -	—
l.c.l. works	lb	09¼-	—
Mercury oxide, bbls., 1,000 lbs	lb.	1.93 -	—
smaller lots	lb.	1.95 -	—
Ocher American golden, bgs., works	lb.	.01¼	.02¾
Zinc, bots. same basis as chrome	lb.	.24½-	—
Yellow dock root, bls.	lb.	.25	.27
Yellow xanthorrhiza (see Xanthorrhiza)			
Yerba santa leaves, bls	lb.	.35 -	38
Yohimbine hydrochloride vts	oz.	3.25 -	4.00

Z

Zein, bgs., 36,000 lbs., works	lb.	.30 -	—
1,000 lbs. to 36,000 lbs., works	lb.	.32 -	—
smaller lots, works	lb.	.35 -	—
Zinc acetate, tech., bbls., dms	lb.	.47 -	—
NF dms	lb.	.42 -	—
Arsenite, bgs., c.l., frt. alld. E. of Rockies	lb.	No stocks.	
l.c.l., same basis	lb.	No stocks.	
Borate, bgs., c.l., ship't. pt., frt. alld., E.	lb.	.13½-	.17
frt. alld. Pac. Coast	lb.	.16½-	.19
l.c.l., ship't. pt., frt. alld. E.	lb.	.14 -	.17½
frt. alld. Pac. Coast	lb.	.18¼-	.20¾
Zinc carbonate, tech., rubber makers, bbls., works	lb.	.10¾-	—
precip., powd., dms	lb.	.26 -	—
Purified precip., dms	lb.	.37 -	—
Chloride, tech., fused, dms., c.l., works	100 lbs.	8.00 -	—
l.c.l., works	100 lbs.	8.40 -	—
gran., bbls., c.l., works	100 lbs.	8.75 -	—
l.c.l., works	100 lbs.	9.15 -	—
solution, 50%, dms., c.l., works.	100 lbs.	4.55 -	—
l.c.l., works	100 lbs.	5.15 -	—
tanks, works	100 lbs.	3.90 -	—
NF, gran., dms	lb.	.42 -	—
Chromate (see Yellow, zinc).			
Cyanide, kgs., works	lb.	.41 -	—
Diethyldithiocarbamate, dms., wks.	lb.	1.00 -	—
Dust, bbls., c.l., works	lb.	.20¼-	—
l.c.l., works	lb.	.21¼-	—
Fluoride, bbls., works	lb.	.40 -	—
Hydrosulphite, dms., c.l., frt. alld.	lb.	.19¾-	—
l.c.l.	lb.	.20¼-	—
Iodide, NF, jars	lb.	4.85 -	—
Laurate, bbls	lb.	.45 -	.46
Linoleate, solid, 9½%, bbls	lb.	.51¾-	—
Metal slabs, E. St. Louis	lb.	.16 -	—
Naphthenate, liquid, 8% Zn., frt. alld.	lb.	.21½-	.22
10% Zn, dms., frt. alld	lb.	.26¼-	.26¾
Oleate, bbls	lb.	.42¼-	—
Oxide, pigment, dom., acicular, bgs., c.l., ship't point, frt. alld	lb.	.15½-	—
l.c.l., works	lb.	.15¾-	—
American process, com'l, lead-free, bgs., c.l., ship't point, frt. alld.	lb.	.15¼-	—
l.c.l., works	lb.	.15¾-	—

—Continued on page 47

Zinc Chloride

FOR USE IN—Preserving wood; Finishing paper and textiles; Flameproofing and dyeing textiles; Galvanizing; Manufacturing vulcanized fibre, batteries and glue.

Zinc Sulphate

FOR USE IN—Fertilizers and orchard sprays; dyeing and printing textiles; Electro plating; Electro galvanizing; making rayon, paint, varnish, glue.

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Cultures Clash

It should be comforting to all real Americans that the United States Department of State and the Governor of the State of New York have turned down pleas that the Cultural and Scientific Conference for Peace be stopped. Some delegates, it is true, were barred from this country; but, the reasons therefor had nothing to do with their political or other ideological beliefs or their intention to express such beliefs verbosely. It is not so encouraging to know that the promoters of the conference were far less openminded with respect to the admission of citizens of the United States. That, of course, was to be expected, and the opposition rally was the only practicable answer, although there were too many withdrawals from attendance. It will not be enough, because all those who should hear what the other side has to say will not be able to do so in either direction.

Whatever the accuracy of the definitions of the purpose and technic of the conference by its sponsors and by those who have opposed it, the discussion of world peace should be open equally to all the peoples of the world. No one group has the panacea, and if it had, it could not get universal acceptance on mere say-so. Whosever the fault, the "peace" conference was badly arranged and had to be a sort of "packed" meeting.

It is highly desirable that the various cultural—or something—approaches to world peace be competently debated in open meeting. No culture, or ideology, or whatsoever is perfect; none is utterly no good. It is not sufficient to hold that everything contrary to democratic capitalism should be exterminated, or even excluded from all consideration. However it is viewed, socialistic communism presents a challenge for democratic capitalism which will not properly or adequately be met by bans, bars, or protests. The desirability of the two systems must be fought out on their respective merits. If the advocates of the latter are not able to meet the propaganda of the former, it is highly necessary that they become so—and get busy.

Consolidated Medical Service

The proposal by the Hoover commission on reform in government that the many, widespread Federal medical services and related activities be consolidated proffers an interesting variety of connotations. Not the least of its significance may, at least, be inferred from its issuance along with a recommendation of a cabinet department of education and public welfare. In fact, three of the twelve members of the commission advocate the inclusion of the Federal medical administration in that department.

A most interesting and potentially influential point with relation to the proposed consolidation of government medicine is the accompanying information that the activities thereby comprised serve about one-sixth of the people of the United States. Much smaller numbers have often proved very powerful minorities. It must be considered that the providing of such a large part of the medical service of the nation under a single agency would approach disturbingly close to nationalized medicine of the sort toward which the political interest in better medical care is inclined.

Here arises the point:—To what extent is the Federal providing of medical service for almost 25,000,000 persons indicative of any of the characteristics generally attributed to so-called "socialized" medicine? It must be that the service is inadequate. That is one of the reasons behind this proposal of consolidation. It is reported that the hospital facilities were but one-half in use. That is something to compare with the inadequacy of such facilities in private practice. The whole matter calls for thorough study, even though the direct objective may be looked upon as highly desirable.

Some sort of expansion in the medical functioning of the government is almost inevitable. What it will be depends on many things. Its consideration should be applied to fundamentals: there is far too much parading of bogeymen. If there is to be a full Federal department, or even an important bureau, having to do with medical care, the project must be logically considered. It cannot be argued that such an agency would be universally dictatorial. Certainly the Department of Commerce does not exercise any such authority over business. Nor does the Department of Labor have more than a little to do with the policies and practices of labor. It is true that the Department of Agriculture does exercise a large measure of control over the nation's farming. But, the reasons for that position are many, and they almost all derive from the farmers' expectation of and demand for governmental aid. It is not logical to declare that any governmental program of medical care would fall into the flops and fritterings which more or less characterize such programs in other countries. Attempts in democracy have been no more successful for just as many other peoples. Governmental assistance can improve medical care in the United States.

Rebellion That Flopped

The current session of Congress may well deserve the appellation, "Do Nothing," by reason of its attitude toward the desires and requests and instructions of the President of the United States. But the senate, at least, deserves a medal for courageously doing a good deed in confirming the appointment of the director of the Bureau of Mines in defiance of the demands of the President of the United Mine Workers of America. It is good for all that Americans stand for to know that the upper house of the makers of Federal laws is still the U. S. Senate, not the U. M. W. A. Senate.

The opposition of the maharaja of the mines to the wishes of the President of the United States with respect to the direction of the still democratic Bureau of Mines really amounted to rebellion after two years of successful blocking of the appointment by means of political push and pull. During those two years, the unconfirmed director got no pay after January, 1948. During the diggers' dictator's rebellion—a matter of at least two weeks—more than 500,000 miners and haulers of coal got no pay. But, the coal czar's pay went on all the time!

All the time and some more time also went on and will go on the bituminous big-shot's solemn declarations of the sanctity of contracts—with nary a word about the convenience of loopholes therein—about the hazards of coal mining—and no admission of the fact that the enforcement of mine safety is 99.44 percent in his hands. The pit potentate's fortnight sans pay was officially devoted to mourning for those who were killed or injured in the past year because that enforcement did not measure up to the need. It is expectable that the senate's disregard of the miners' monarch's shifting of the blame will bring another reason for the next application of his contractual clause which excuses his minions from working when they are not willing and able. Obviously they cannot be willing when he wills otherwise, nor can they be able when he sends them home. Doubtless the wail then will be for more pay—in part to make up for that lost while the sappers' sultan let his peeve out—or else, the people of the United States will again be rebelled against and unconstitutionally subjected to "cruel and unusual punishments" through being deprived of heat.

And then what? Laws are not a remedy for rebellion. But, there is a bill in the house (H. R. 3418) intended "to allow in the case of miners working under ground, an income-tax deduction with respect to work clothes."

OPD Forum

An Outlet for Individual Opinion

(Anonymous communications will not be recognized, but a signer's name will be withheld at request.)

Lithium Chloride Toxicity

The Editor,
OIL, PAINT AND DRUG REPORTER.
Sir:—

I notice in the February 28 edition of the OIL, PAINT AND DRUG REPORTER that the FDA has issued a warning respecting lithium chloride. I have also seen the front page, 2-inch lettering, re "Death Salt" in the daily press here.

How can this be so when this same salt is used in many soft drinks (see Merck Index, p. 321) and effervescent lithium citrate is sold by the ton (N.F. VI)?

Surely it must be some other element—possibly an error, say. I cannot conceive a chemical so long in common use suddenly acting in this manner.

Sincerely yours,

Toronto, Ont. DANIEL L. COUCH, A.R.I.C., M.C.I.C., F.R.S.A., F.C.S.

The Editor,
OIL, PAINT AND DRUG REPORTER.
Sir:—

I am now replying to your inquiry concerning the basis for the Food and Drug Administration's conclusion that lithium chloride is a toxic substance.

The enclosed statement of February 21, 1949, [see below] summarizes the events which led to the press notice of February 18 warning consumers that three lithium chloride-containing salt substitutes then known to us are dangerous.

Experiments in our own laboratories show that the administration of lithium chloride to rats at the rate of 100 milligrams per kilogram per day kills the animals. This quantity of lithium chloride is roughly comparable with the administration of 7 grams per day to human beings. There is also conclusive evidence showing that lithium chloride is significantly more toxic in the presence of a low-sodium diet.

Reports in the medical literature show that the ingestion by humans of as little as 9 grams of lithium chloride in five days, 13 grams in three days and 17 grams in thirteen days has caused serious injury. The reports to which we refer are:—"Lithium Intoxication Occurring with the

—*Continued on page 63*

TVA Fertilizer Operations

The Editor,
OIL, PAINT AND DRUG REPORTER.
Sir:—

TVA appreciates your promptness in printing its side of the story of the Peters' report on TVA fertilizer operations. However, on page 78 of the March 7 issue of the OIL, PAINT AND DRUG REPORTER, in a quotation from our analysis of the report, parts of two sentences are omitted. This omission makes a significant change in our statement concerning fused tricalcium phosphate produced at TVA plants which you may wish to correct in a forthcoming issue.

We are copying the quotation below with the omitted parts underscored [italicized]:

"TVA has developed a process for making a fertilizer, called fused tricalcium phosphate, containing 28 percent P_2O_5, *almost 50 percent more than in the ordinary superphosphate produced by industry for over one hundred years. TVA has developed a process for making another fertilizer, calcium metaphosphate, that contains 61 percent* P_2O_5, or more than 3 times the amount of P_2O_5 in ordinary superphosphate. Neither of these processes is mentioned in the report."

Washington MARGUERITE OWEN,
Washington Representative

Washington Talks It Over

—*Continued from page 5*

botanical programs, and two forestry experts from Norway.

ECA has under study plans for sending U. S. experts on leather tanning to the Netherlands and experts on machinery and research for peanut production to East Africa, and to receive Irish veterinarians to study pig diseases and artificial insemination of cattle.

Imports Are Increasing

Reports for February from the various customs districts around the country indicate that both the volume and the variety of goods entering the United States are on the increase, and that many foreign nations are expanding their markets in this country.

A wider variety of products is coming in from abroad—many new products are appearing—together with lines of foreign merchandise not seen since before the war. Substantial increases in business also have taken place in many ports not heretofore considered key factors in the general import business, which suggests that a broadening of the shipping pattern is under way.

The first substantial shipments since before the war of German and Japanese general merchandise are arriving at some East coast ports, and sample shipments have reached interior markets. There have been arrivals of fish products from Norway, plant bulbs from Holland, steel products from Belgium, earthenware from several countries.

Treasury officials believe that the growing list of imports is indicative of the progress toward recovery on the part of many war-torn countries.

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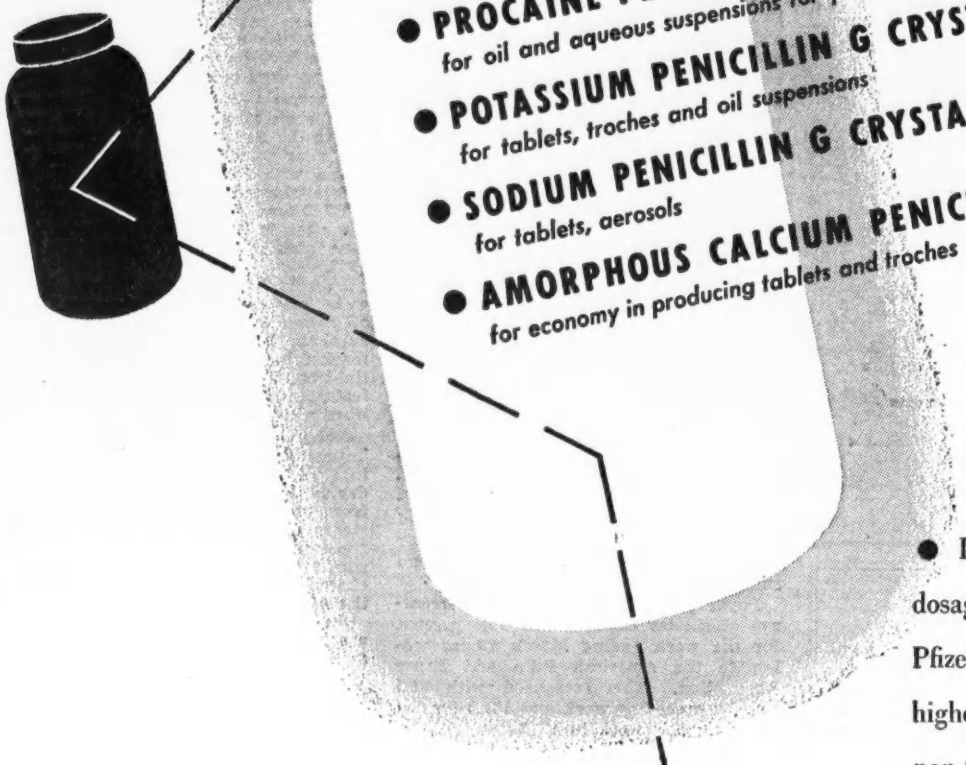
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Heavy Chemicals

Prime western zinc price declined last week, the fourth downward revision recorded under the non-ferrous metal classification this month. Not all producers had revised prices up to the close of the week although they were expected to fall in line. It was stated that reluctance on the part of buyers was primarily responsible for the market's reaction and that the lower price was established in an effort to stimulate demand. The revision follows a recent decline in lead prices and the trade would not be surprised if a revision in copper metal materializes in the not far distant future. While no price changes were announced in the zinc based chemicals, it was admitted that their background had been eased by the lower price of the metal.

A slight pickup in the general demand for chemicals was reported in some supply sources but purchases were mostly conservative and the tonnage exchange did not appear impressive. Stocks in most instances are free, with reports current of cutbacks in production to check overflows. The tight spots have narrowed down to cadmium, nickel salts and oxalic acid. Soda ash and caustic soda have continued in free supply, with producers now making small lot sales from warehouse points and abolishing the zone basis. Chlorine was available for prompt shipment but stocks are expected to tighten in April if the usual improvement in demand develops.

Domestic production levels of industrially important inorganic chemicals for January, 1949, were generally lower than those reported for December, 1948, but higher than for January, 1948, according to the Bureau of the Census. Decreases from December, 1948, were reported in 19 of the 35 chemicals included in the Bureau's survey, while increases were registered for 13. Twenty-one of the 35 chemicals were produced in larger quantities during January, 1949, than in January, 1948, while 11 were produced in smaller volume.

All time high production levels were recorded in January for sodium bichromate and chromate and disodium phosphate. Of the heavy volume chemicals included in this survey decreases of 8, 5 and 3 percent respectively were reported for production of soda ash, caustic soda and sulphuric acid.

Paper production based on a percentage of six-day capacity was 89.4 percent for the week ending March 19, according to the American Pulp and Paper Association. This compared with 91.5 ing the preceding week and 101.2 for the corresponding week in 1948.

Production figures appearing below, unless otherwise designated, are from the Bureau of the Census, Department of Commerce.

Ammonia, Anhydrous — Production of synthetic in January was placed at 99,057 tons, compared with 99,303 in the preceding month and 95,405 in January 1948. Some easement in stocks noted during March but supply situation still tight. About the same condition noted in aqua ammonia.

Ammoniac, Sal — White granular has continued firm at former price levels with stocks meeting dry battery requirements and other uses promptly. Gray galvanizers' grade has found a steady seasonal outlet and the recent advance in prices has been fully sustained.

Calcium Carbide — January production was higher. The total amounted to 61,918 tons of commercial, compared with 57,971 in the preceding month and 58,091 in January of last year.

Carbon Dioxide—Output of liquid and gas in January amounted to 18,871,000 pounds, against 16,750,000 in December and 16,384,000 in January last year. Production of solid, dry ice, was 41,500,000 pounds in January, compared with 42,918,000 in December and 40,741,000 in January 1948.

Carbon Tetrachloride—Buying conditions have improved during the past month and the pressure for shipments has eased. At the close, the market showed a satisfactory degree of balance with producers in a position to consider prompt shipments.

Chlorine—Supply situation has continued relatively easy all month with prompt shipments in cylinders and tankcars available at the close. Buying interest is expected to increase during April and it is possible a tighter market situation may develop. Production of chlorine gas in January amounted to 152,838 tons, compared with 154,469 in the preceding month and 123,319 in January a year ago.

Copper Sulphate—Agricultural demand developed during the month, expanded slightly and then turned spotty at the close. Industrial demand was described as steady. Export inquiry has increased without revealing any important sales for European countries. Some inquiry was also in the market from the Far East. Stocks have been kept at a level to meet requirements promptly.

Fluorspar—Production of fluorspar in 1948 was slighty less than in 1947, according to the Bureau of Mines. Total output last year amounted to 336,087 tons, compared with 343,700 tons in 1947. Shipments showed a moderate increase at 331,260 tons, against 329,484 in 1947. Consumption in 1948 was 405,805 tons, an all-time high and compared with 376,138 in 1947.

Nickel Sulphate—Producers did not make any significant progress in leveling off commitments this month. Demand for sulphate has exceeded output and the market has not relaxed from its former tight condition. Other nickel based chemicals, including carbonate and chloride were also shortshipped.

Potash, Caustic—Supply conditions have improved for this chemical, the increase in stocks being more pronounced in the dry forms than in the liquid. The demand from the soap trade has remained fairly steady and no excess stocks of liquid were reported at the close of the week. Consumers of the dry forms have not purchased in sufficient quantities to tighten the market.

Potassium Carbonate—Buying interest was concentrated more on the dry forms during the past month and no large scale accumulations could be noted. The liquid was rather quiet and readily available in tankcars for prompt shipment.

Potassium Chlorate—Demand and supply have remained about evenly balanced during the past month. It was stated that combined shipments to the match factories have embraced seasonal dimensions. It is expected that demand for perchlorate will be leveled off in April.

Salt Cake—Stocks adequate to meet requirements. Demand relaxed from the kraft paper mills. January production of crude commercial amounted to 57,710 tons, compared with 58,804 tons in the preceding month and 51,999 tons in January last year.

Soda Ash—Continued in fairly free supply during the closing days of the month with producers in a position to accept additional business for prompt shipment. Prices have remained steady at the works for carlots while the less than carlot price for light ash has covered a range extending from $2.65 for 100 pounds to $4.42 in paper bags and dense ash $2.75 to $4.52 f.o.b. warehouse or stockpoint, depending upon location. Production of light ash in January was 205,400 tons, compared with 216,765 in December and 189,627 in January 1948. Dense ash output in January was 110,102 tons, against 130,239 in the preceding month and 136,512 in January last year. Production of natural was 13,346 tons, compared with 13,510 in December and 13,190 in January 1948.

Soda, Caustic — Stocks of both liquid and dry forms remained available last week. Demand showed no unusual increase but prices were steady. The less than carlot price for flake, ground and powdered extended from $4.80 per 100 pounds to $6.67 in drums, solid was priced at $4.40 to $6.27, depending upon location of stockpoint. Production of liquid by the electrolytic process amounted to 150,994 tons in January compared with 154,923 tons in December and 119,061 in January 1948. Solid output in January

For Late Market Developments, See Page 4

Market Trends

Prices Advanced

None

Prices Reduced

Zinc, prime western, 1½c. per lb.

Comparative Price Indexes

(100=August 1, 1914)

General Chemicals

Last week	Prev. week	Last month	Last year
232.2	232.2	234.4	204.1

Acids

Last week	Prev. week	Last month	Last year
122.8	122.8	122.8	119.7

(For Current Prices see Page 9)

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amounted to 28,161 tons, against 27,387 in the preceding month and 25,170 in January last year. Production of liquid by the lime-soda process amounted to 58,897 tons in January, against 66,556 in December and 63,717 in January 1948. Output of solid by this process was 22,670 tons in January, compared with 24,011 in December and 20,974 in January 1948.

Sodium Bicarbonate — Stocks have continued available for immediate and prompt shipments throughout the past month. January production of refined was placed at 13,346 tons, against 13,510 in the preceding month and 13,190 in January 1948.

Sodium Chlorate — Gradual improvement has developed in the inquiry for weed-killing compounds and it is expected that seasonal expansion will take place during April. Stocks have met requirements readily throughout March but the supply situation may tighten with an increased demand.

Sodium Phosphate—January production of monobasic amounted to 1,120 tons, against 1,350 tons in December and 1,068 in January last year. Output of dibasic in January was 11,407 tons, compared with 8,663 in the preceding month and 6,563 in January 1948.

Sodium Pyrophosphate — According to London advices, the treasury has exempted this chemical from key industry duty until June 30, 1949. The chargeable duty will be only the general 10 percent advalorem.

Sodium Silicate—Output was lower in January. The total production of soluble silicate glass, liquid and solid anhydrous was 35,914 tons, compared with 38,049 in the preceding month and 37,529 in January last year.

Zinc Sulphate — Industrial demand has remained steady with shipments confined mostly to contract consumers. The agricultural demand started during the last half of the month and, while rather spotty, is expected to expand substantially in April. Stocks are meeting requirements readily at former price levels, there being no reflection of the lower metal market at the close of the week.

Acids

Hydrofluoric—Stocks have continued ample to meet domestic requirements throughout the month. January production of anhydrous and technical amounted to 5,322,000 pounds, compared with 5,098,000 in the preceding month and 4,572,000 in January last year.

Muriatic—Supply situation has shown improvement during the month with prompt shipments available at the close. Production in January totaled 39,370 tons, compared with 39,237 in December and 39,089 in January, 1948.

Nitric—January production was placed at 97,854 tons, against 95,099 in the preceding month and 103,834 in January, 1948. Production has caught up with demand and stocks were available for prompt shipment at the close of the month.

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contract consumers and stocks are short of requirements. Pressure for deliveries appears to have relaxed to some extent and it was asserted that possibilities for leveling off demand were somewhat brighter.

Sulphuric—Stocks were adequate to meet requirements at the close of the month. Output seemed to be slightly above demand. January production amounted to a gross of 964,506 tons, including 247,968 tons made by the chamber process and 716,538 by the contact process. The amount of fortified spent acid recovered was 64,193 tons. December gross production was 989,887 tons and in January, 1948, output registered 932,933 tons.

Non-Ferrous Metals

Aluminum—The total domestic production of primary aluminum was 53,474 short tons in December, according to the Bureau of Mines. This brought the preliminary total output for 1948 to 623,483 tons, an increase of 9.0 percent over the 571,750 tons produced in 1947, and established 1948 as the record year for peacetime aluminum production. Other preliminary totals for 1948 showed 625,861 tons of primary aluminum sold or used, at an f.o.b. plant value of $179,933,376.

December output gained 5 percent over November, but appeared to have little effect in reducing the current aluminum shortage. Inventories of pig aluminum on December 31, 1948, totaled 13,171 tons. This represents an increase of 5,096 tons over the stocks on hand at the end of the preceding month and an increase of 2,687 tons over the stocks on December 31, 1947. As stocks of aluminum at reduction plants may vary greatly from day to day, it is worthy of note that these figures are significant only in so far as showing radical changes and trends. Prices of primary aluminum remained unchanged during December. Secondary aluminum ingot sold for ¼c. to ½c. a pound less by the end of the month, but prices for most scrap items were the same as at the end of November.

Cadmium—Demand has kept in excess of the available supply and the market has maintained a tight condition over the month of March. The shortage was pronounced at the close with no apparent easement in sight.

Copper—Export inquiry was reported more active during the past week and sales were reported on the basis of 23½c. per pound f.a.s. New York. Domestic shipments for March were estimated to

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be in the neighborhood of 100,000 tons. The scrap market remained relatively quiet at the lately reduced prices. Demand for electrolytic copper metal for domestic use was appreciably lower at the close than at the beginning of the month.

Lead — Output from domestic mines totaled 35,008 short tons in January, a 5 percent drop from the December 1948 production of 36,997 tons, but 9 percent greater than the average monthly rate during 1948, according to the Bureau of Mines. Of the total output in January the western states contributed 63 percent; Arkansas, Kansas, Missouri, and Oklahoma, combined, 35 percent; and states east of the Mississippi River 2 percent; compared with 64 percent, 33 percent, and 3 percent, respectively, in 1948. In the western states the January mine output of recoverable lead was the greatest since May 1942. Nearly every state produced lead in greater quantities than indicated by the 1948 monthly average. The Idaho production, largest since March 1943, was 18 percent above the average monthly output in 1948. Other important lead producing states in which the January output exceeded the monthly average for 1948 were Arizona with 2 percent, California 14 percent, Colorado 2 percent, Montana 24 percent and Nevada 4 percent.

Quicksilver — Trading continued slow last week with a moderate exchange of small lots about the best that could be reported. The range was from $87.00 to $89.00 per flask, depending upon seller and quantity.

Silver—Imports of refined silver bullion during the week ending February 23 were 657,010 ounces (troy) according to the Department of Commerce. For the week ending February 16, the total was 602,647 ounces. Demand and supply appeared to remain in balance last week. The official closing price for silver bullion in the New York market was 71½c. per ounce.

Silver Bullion Price Range

	Per ounce— New York	London
High	Feb. 14, 1949—71½c.	Feb. 14, 1949—43⅛d.
Low	Jan. 1, 1949—70c.	Jan. 1, 1949—42½d.

Zinc — Prices were reduced 1½c. per pound by a leading producer establishing the market for slab zinc at 16c. per pound for prime western East St. Louis. This is the second non-ferrous metal to recede from its peak level this month. The downward revision, according to metal authorities, was required to restore the price relationship between zinc and lead. Significantly, however, it reflected very slow movement of zinc into consuming channels in recent weeks. Buyers, anticipating lower prices, have been drawing on inventories and operating mostly for current wants.

Output from domestic mines totaled 52,914 short tons in January, a 4-percent drop from the December 1948 production of 55,141 tons, but 2 percent greater than the average monthly rate during 1948, according to the Bureau of Mines. Zinc mine output in states east of the Mississippi River in January was virtually unchanged from the average monthly production during 1948. In Arkansas, Kansas, Missouri, and Oklahoma the combined January output was 2 percent less than the 1948 monthly average and 20 percent under the December production. Mining and milling in the Tri-State district was hampered during January by the worst sleet storm in 12 years, which disrupted electric power service causing a drop in zinc output compared with December.

In the combined western states January zinc production was slightly less than in the previous month but was 4 percent greater than the average output for the preceding twelve months. Arizona, California, Idaho, and Montana produced more zinc in January than the monthly average for 1948 with gains of 9 percent, 60 percent, 6 percent, and 25 percent, respectively. Production in Colorado, the fourth largest zinc-producing state in the western states group in 1948, dropped 11 percent below the average monthly rate for 1948. Output in New Mexico was slightly less than the average for 1948 and Utah production dropped 5 percent.

Owens-Corning Forms Two New Divisions

The Owens-Corning Fiberglas Corporation, Toledo, Ohio, has established a general products division and a textile products division. W. P. Zimmerman, executive vice-president of the corporation, has been named general manager of the general products division, and J. H. Thomas, vice-president, has been appointed general manager of the textile products division. Announcement has also been made of the appointment of L. R. Kessler as general manager of the Pacific Coast division, which was established last year.

Lead 1947 Final Figures Reported by Mines Bureau

Refined lead produced in the United States in 1947 totaled 456,672 short tons, compared with 346,210 tons in 1946, according to final figures released last week by the Bureau of Mines. Secondary lead recovery was 511,970 short tons in 1947, against 392,787 in the previous year. Consumption of refined lead in 1947 amounted to 660,657 tons, compared with 530,588 in 1946.

Phila. Chemical Club Plans Meeting Tonight

The Chemical Club of Philadelphia will meet at the North Hills Country Club at 7 o'clock tonight. Following the usual dinner session, the members will view three short motion pictures, entitled "Chemical Weed Control," "This Is Magnesium," and "Treasure from the Sea."

Norton Buys Canadian Plant

The Norton Company, Worcester, Mass., will manufacture silicon carbide at a plant it has just purchased from Durham Chemicals, Ltd., at Cap de la Madeleine, Quebec.

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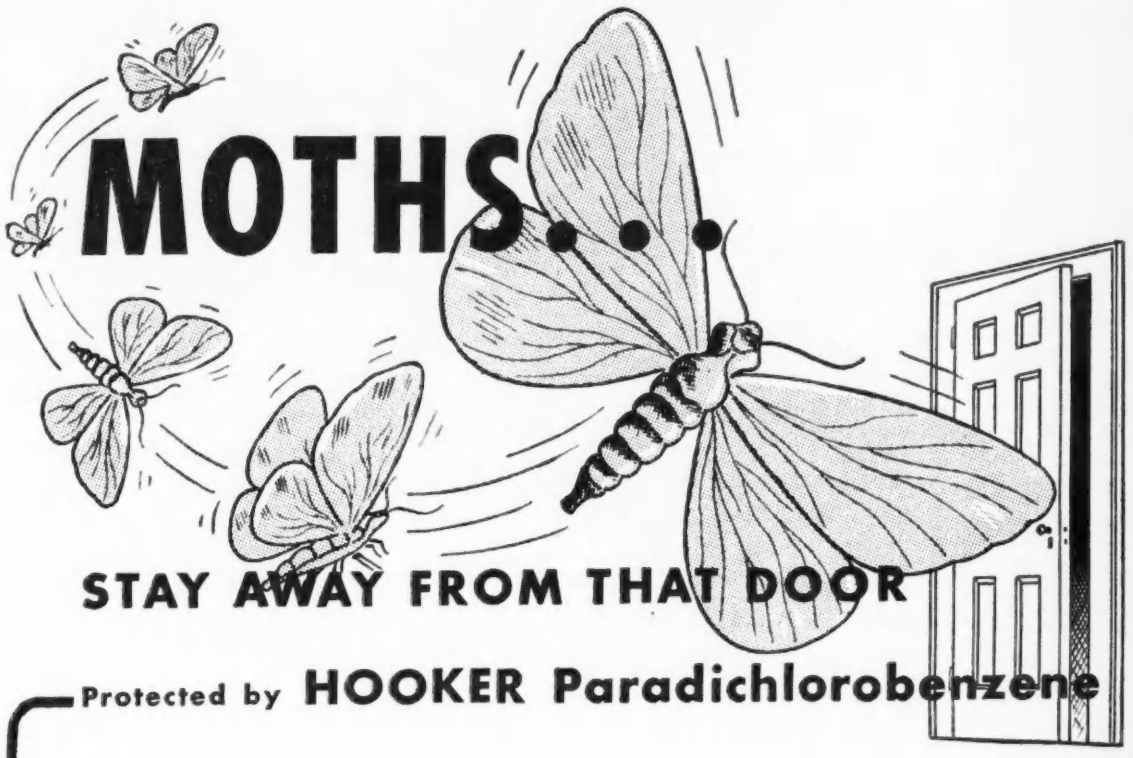

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Du Pont Shifts Staff Of Rayon Technical Div.

The rayon technical division of E. I. du Pont de Nemours & Co., Wilmington, Del., has appointed three new research supervisors and created a new research position concerned with dyes. The new supervisors are: Dr. Robert E. Wilfong, research chemist in the acetate research section; and Drs. Linton G. Ray, jr. and John P. Wilkins, research group leaders in the rayon pioneering research section.

Dr. Chiles E. Sparks, a research supervisor in the rayon pioneering research section at Buffalo, N. Y., has been transferred to Wilmington as coordinator of dye work on fibers, and will be liaison with the organic chemicals department group working in the same field.

N.Y. Textile Chemists Plan April 1 Meeting

The New York section of the American Association of Textile Chemists and Colorists will meet at Kohler's Swiss Chalet, Rochelle Park, N. J., on April 1. Edward W. Rhael, Sandoz Chemical Works, will speak on "The Elements of Color and Spectrophotometry," and there will be a second speaker, who will discuss "Jig Dyeing and Advantages of Housings."

Amend Observes Fifth Year

The Amend Drug & Chemical Company, New York, recently celebrated its fifth anniversary with a dinner attended by officers and employees. Following dinner, the group attended a Broadway musical comedy.

Solvay Publishes Data On Chlorine Bleaches

The Solvay Sales Division, Allied Chemical & Dye Corporation, has published a technical bulletin on chlorine bleach solutions. The booklet takes up the general properties of hypochlorous acid and its salts, the types of industrially important bleach liquors, and the preparation of bleach liquors. Chlorination equipment and the production of chlorine bleaches are also discussed. Copies may be obtained from the division at 40 Rector street, New York 6.

Spencer Engages Schramm

Spencer Chemical Company, Kansas City, Mo., has added Robert W. Schramm to the staff of its market research department. Mr. Schramm was formerly associated with the Carbide & Chemical Corporation, Whiting, Ind.

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Textile and Leather Chemicals

Consuming inquiry for textile and leather chemicals was irregular last week, with the business volume still restricted and chiefly for actual requirements. Egg albumen was inactive and lower, while the yolk was scarce and advanced. Potato starch was easier and was reduced fractionally. Price index declined to 345.5, compared with 356.8, a month ago and 379.5 for the corresponding week last year.

Feature of the sizing materials group was government purchases of potato starch in support of this market. Some 12,200,000 pounds in Missouri were reported bought from 4¾ cents to 4.90 cents per pound, f.o.b. mills, in Maine, according to grade. It was expected that additional purchases would be made shortly. This market, however, became unsettled and under selling pressure, declined fractionally. Business was reported light in the East, but was more active in the West. Sago flour was lower for shipment, while small stocks on the spot were firmly held. Supply condition of high grades tapioca flour continued tight and supplies of lower grades also were materially smaller.

Tanners continued to confine inquiry for tanning materials replacement to immediate requirements, and the volume of business was still limited. While demand for imported materials was inactive, reports from abroad indicated a steady tone at primary production points. Myrobalans and valonia cups were maintained at the recent price advance while divi divi, cutch, wattle bark and extract and quebracho were unchanged and well held.

Production of cattlehide leather in January was indicated at 2,073,000 hides, according to preliminary figures issued by Tanners Council, compared with 2,239,000 hides in December. Calf and whole kip skins output also declined, totaling 941,000 skins in January, against 1,053,000 during the previous month; goat and kid skins, 3,013,000 compared with 3,232,000 and sheep and lamb skins, 2,581,000 against 2,665,000 skins.

Consumption of sheep wool on a scoured basis, averaged 11,600,000 pounds per week during January, according to preliminary figures released by the Bureau of the Census. This was 4 percent above the average weekly consumption for the previous month but 19 percent lower than that for January, 1948. The wool consumed in January was 64 percent apparel class and 36 percent carpet class.

Chemicals

Acetic Anhydride — Demand continued routine. Supplies were adequate to cover current requirements. Quotations were without change and steady.

Bichromates — While the sodium bichromate supply situation has improved, potassium bichromate continued tight. Offerings of sodium were more liberal, at unchanged and steady prices. Demand for export was light and spotty. Production of sodium bichromate and chromate in January totaled 8,913 short tons, compared with 8,328 tons in December and 7,665 tons during January, 1948.

Soda Acetate—Conditions in this market were unchanged and steady. Demand was fair, chiefly for actual needs.

Sulphonated Oils — Buying interest in sulphonated was limited, with trading restricted to actual requirements. Sulphonated tallow was easier with the lower cost of tallow. Prices were reduced 1c. per pound to 7c. to 7½c. per pound for 25 percent fat, and to 8¼c. to 8½c. for 50 percent, as to quantity. Other varieties were quiet and unchanged.

Sizing Materials

Albumin Blood — Consumers absorbed fair sized quantities for prompt delivery. Quotations for albumin and dried soluble blood were unchanged and steady.

Corn Dextrin — This market was unchanged and steady. Trading was moderate for nearby and prompt delivery. Quotations for all grades were maintained at former levels.

Corn Starch—Consumers were taking moderate quantities for prompt requirements. Market ruled steady at unchanged quotations. In its first survey of spring crop plantings, based on farmers' intentions to plant, the Bureau of Agricultural Economics disclosed that acreage for the 1949 corn crop will probably be the smallest in over fifty years, but new high-yield hybrid types could turn out another mammoth crop despite the reduced planting. This year's prospective corn acreage, based on farmers March 1 intentions is 84,809,000 acres and is only 2 percent below last year's 86,196,000 acres planted to corn.

Egg Albumen—Production thus far this season was reported light. Demand for albumen was slow and spotty and the market was easy. Government buying of large quantities of whole eggs continued to support the market. Prices were lower and more or less nominal at $2.45 to $2.55 per pound, as to quantity. Export business was limited. Inquiry for technical also was inactive and quoted nominally at $1.35 to $1.40 per pound, as to quantity. Sales of 5-10-barrel lots were noted at $1.38 per pound.

Egg Yolk—Limited supplies of yolk on spot were firmly maintained and advanced at least 1c. per pound. Sales were reported at $1 per pound and up to $1.05, depending upon quantity and seller. Inquiry was active and large buyers were reported in the market for replacements.

Potato Starch — Government purchases of potato starch last week were reported at 12,200,000 pounds from $4.75 per cwt. and up to $4.90 per cwt. f.o.b. Maine mills, depending upon grade. The situation in Maine developed an easier tone and quotations were reduced ½c. per pound, to 5.80c. carlots, New York basis. Trading was light locally, while reports from the west stated that a brisk business took place for shipment from Idaho. Quotations of Idaho starch were unchanged at $6.13 per pound, carlots New York delivery, which took it out of competition in the East. Production in Idaho was affected by the lack of potatoes. Supplies on the spot were quoted at 7½c. per pound, less carlots exwarehouse.

Government purchases of potato flour totaled 135,184,580 pounds from July 1, 1948, to January 31, 1949.

Rice Starch—Demand was confined to small lots. Imported material was quoted at 10½c. per pound, exwarehouse.

Sago Flour — Shipments were lower and offered at 6c. to 6½c. per pound, exdock, New York as to quality. Business was dull. Small stocks on the spot were held at 7½c. to 8c. per pound, as to seller.

Tapioca Flour—Firmness featured this market. Reduced supplies on the spot were maintained at unchanged levels. Trading was reported as fair, chiefly for immediate requirements. High grades were quoted nominally at 10½c. to 11c. per pound, as to seller, while medium was available at 9c. to 9¾c. and low at 6¾c. to 7¼c., for spot delivery.

Tanning Materials

Cutch—Inquiry for replacement was reported fairly active. Limited offerings for shipment continued to restrict business. Prices were unchanged and well held.

Myrobalans — Shipments were maintained at the recent price advance. Limited supplies were well held at primary points due to the short crop. Tanners continued to restrict demand to actual needs. Imports totaled 7,110 bags at New York last week.

Quebracho Extract — Inquiry for shipment from primary centers continued slow. Shipments were offered freely at unchanged quotations, with tanners at the sidelines. Imports were light last week, totaling 5,455 bags at New York for delivery on previous contracts.

Valonia—Consuming inquiry showed no improvement last week. Cups for shipment were maintained at the recent advance, because of limited available stocks for shipment, and were held at $71 to $72, per ton, exdock.

Wattle—Tanners continued to operate in a hand-to-mouth manner. Primary markets were unchanged for bark and extract. Arrivals of bark were reported at 8,636 bales and 1,120 bags of extract at New York last week against former orders.

. *For Late Market Developments, See Page* 4

Market Trends

Prices Advanced

Egg yolk, 1c. to 2c. per lb.

Prices Reduced

Egg albumen, 5c. per lb.
Potato starch, ½c. per lb.
Tallow, sulphonated, 1c. per lb.

Comparative Price Indexes

(100 August 1, 1914)

Last week	Prev. week	Last month	Last year
345.5	349.7	356.8	379.5

(*For Current Prices see Page* 9)

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Agricultural Chemicals

Slightly higher prices were paid for tankage in the local market last week. Sellers asked higher prices for dried blood but last sales were at former levels. There was no unusual activity in any of the packing-house byproducts. Bone meal remained firm and short with demand exceeding the supply for both raw and steamed. Limited stocks of hoof meal sustained the former price. Production of castor pomace remained under contract and no additional offerings reached the open market. More interest was displayed in menhaden meal and scrap and considerable new business was reported on a "when and if basis."

About all the potash available for the spot period is said to have been sold. Pressure for potash shipments has lost its urgency and it looked as if the market for 1949-1950 will be satisfactorily leveled off. Superphosphate continued steady and the month has occasioned an improvement in shipments in the South. Increased production of domestic sodium nitrate has been reflected in greater distribution than a year ago. Ammonium sulphate held a tight supply position with a more pronounced shortage expected if the coal strike is prolonged. Insecticides are being purchased slowly and the season is late in getting under way.

Exports of fertilizer and fertilizer materials in 1948 amounted to 2,744,000 tons and was about 12 percent below that of 1947. The decline was attributed mainly to a sharp cut in exports of Florida high grade phosphate rock and of Tennessee, Idaho and Montana rock.

Production figures appearing below, unless otherwise designated, are from the Bureau of the Census, Department of Commerce.

Nitrogenates

Ammonium Nitrate—January production of original solution did not vary much from the preceding month. The total was 83,707 tons and included 69,651 tons of fertilized grade and 14,056 tons of all other grades. The December total was 83,488 tons and in January last year 95,357 tons were produced.

Ammonium Sulphate—Production of synthetic technical in January amounted to 47,770,000 pounds, against 52,236,000 in the preceding month and 35,252,000 pounds in January, 1948. Stocks of coke-oven sulphate have remained exceedingly tight with demand exceeding current output. Exports under the army civilian supply program totaled 30,392,000 pounds in December, all to Korea.

Bone Meal—Stocks were as tight at the close as at the beginning of the month. Buyers are taking the steamed and raw grades as rapidly as produced and the shortage for prompt shipments has not been relieved.

Castor Pomace—Production is under contract at present and no additional offerings have reached the market. Last sales were at $24.00 per ton in bags, carlot shipments from works.

Dried Blood—Last sales reported were at $7.50 per unit of ammonia, New York basis. At the close this figure was bid with $8.00 asked. Sales in Chicago were made at $8.00.

Fish Scrap—Trading on a "when and if" basis has shown more activity. Several thousand tons of menhaden scrap were reported sold for May-June shipment at $115.00 per ton in bulk and $122.50 in bags, Virginia producing point. Meal has also shown activity at $130.00 per ton for early shipment.

Sodium Nitrate—It is stated that domestic production is progressing at a rate double that of a year ago and that 3¼ percent of production is being used against the export program. Importations of Chilean nitrate have continued to arrive in accordance with schedules while demand has remained broad enough to hold the market position tight.

The United Kingdom's imports of sodium nitrate from Chile in December, 1948, rose to 168,225 hundredweight (1 hundredweight equals 112 pounds), the highest monthly figure since June, 1946, the Board of Trade reports. The total for 1948 was 950,812 hundredweight, compared with 388,784 in 1947 and 1,112,514 in 1938.

Tankage—Slightly firmer in the local market with sales at $7.60 per unit of ammonia. Chicago quoted firm at $7.75. Demand and offerings both limited.

Market Trends

Prices Advanced

Tankage, 10c. per unit of ammonia.

Prices Reduced

None

Comparative Price Indexes

(100 - August 1, 1914)

Last week	Prev. week	Last month	Last year
81.6	81.6	81.6	74.5

(*For Current Prices see Page 9*)

Ammonium Sulphate '48 Output At All Time High

Production of ammonium sulphate reached a new all-time high in the calendar year 1948, totaling more than 1,057,000 short tons, according to preliminary data compiled by the Bureau of Mines and the Bureau of the Census. This figure represents an increase of approximately 4 percent over 1947 production.

About 79 percent of the 1948 total was produced from byproduct coke oven ammonia, 18.5 percent was technical synthetic ammonium sulphate, and the remaining 2.9 percent was produced at coke plants from purchased synthetic ammonia. Statistics on production during 1948, as compared with 1947, are as follows, in short tons:—

	1948	1947
Total production	1,057,205	1,017,539
From coke-oven byproduct ammonia	830,938	809,440
Synthetic ammonium sulphate, technical	195,441	197,029
Made at coke plants from purchased synthetic ammonia	30,826	11,070
Exports	210,491	88,602
Imports	105,887	114,398
Total available	952,600	1,043,335

Phosphates

Phosphate Rock—Supply position has remained easy throughout the past month. Cutback production in superphosphate has contributed to freer stocks of phosphate rock and there appeared to be adequate material to meet the home and export demand. Exports in December amounted to 50,411 tons including 32,033 tons of Florida land pebble and 18,378 tons of Tennessee, Idaho and Montana rock. Total exports for December, 1947, were 156,160 tons.

Superphosphate—Production of normal superphosphate fertilizer during January, 1949, amounted to approximately 737,000 short tons, according to the Bureau of the Census. For the fifth consecutive month, production has declined from the corresponding figures of a year ago—in this instance being 12 percent below the January, 1948 figure. Nevertheless, the production volume for January, 1949 is 1 percent greater than for December, 1948. Shipments were 20 percent higher during January compared to the previous month, but were 3 percent below that of a year ago. Stocks January 31 were 1,210,648 tons, compared with 1,216,788 on December 31 and 918,506 tons on January 31, 1948.

There were 39,000 tons of concentrated superphosphate produced during the month of January or an increase of 9 percent over December and a 15 percent increase over a year ago. Shipments increased about 1 percent over the previous month and stocks on hand declined about 5 percent to 67,219 tons, compared with 70,611 on December 31 and 69,776 on January 31, 1948.

Production of wet-base goods in January was 12 percent below the figures for December and 2 percent below January, 1948. Shipments were up 9 percent over the previous month and the amount used in the reporting plants was 5½ times greater than the amount used in December, 1948. Stocks on hand remained about the same for the month, the total was 14,211 tons on January 31, against 14,203 tons, December 31 and 12,867 tons on January 31, 1948.

Italy's production of superphosphates in the first 6 months of 1948 totaled 82,726 metric tons, compared with 77,181 tons in the first half of 1947, and 170,602 tons in the year 1947. These figures are based on statistics compiled by the Interministerial Coal Committee.

Potashes

Demand continued steady with the pressure for shipments somewhat relaxed. It was stated that practically all the potash available for the spot period has been

For Late Market Developments, See Page 4

sold. Current prospects favor increased production for the 1949-1950 season with possibilities that domestic requirements will be fully satisfied. Shipments have been resumed from a major producing plant recently shut-down for the installation of new machinery and production is being gradually increased.

Cottonseed Hull Ash—Stocks have increased during the past month with buying interest rather light. Prompt shipments have been available at $1.75 per unit of potash delivered for material testing 32 to 36 percent potash.

Pesticides

Only a modest expansion in the insecticide inquiry could be noted during the past month. Buyers have postponed operations with the idea that prices should be more attractive later in the season. If weather conditions occasion a heavy infestation, there may be difficulty in shipping stocks out in time to meet requirements. Buyers, however, prefer to operate cautiously and purchasers of conservative dimensions have continued to predominate.

Pre-emergence weeding-spraying a newly planted cornfield with 2,4-D to destroy weed seed in the soil surface before the corn comes up—is still in the experimental stage, and cannot be generally recommended, say weed control specialists of the Department of Agriculture. Their studies show that the effectiveness of the treatment depends on factors in the soil-moisture-temperature interrelationships that are either unknown or unpredictable and cannot be controlled. The treatment works satisfactorily on heavy soils when the temperature is high enough and soil moisture sufficient to cause prompt germination of both weed and crop seed. But losses in corn seed are likely to be high when the spray is applied to sandy or light, porous soils, or when hard rains follow application on heavy soil. In either case the chemical gets down to the corn seed and injures it as well as the weed seed.

Moderate extensions of the area regulated on account of the white-fringed beetle became effective March 17 and included the newly discovered infested area in Tennessee along with parts of additional counties or parishes in the previously quarantined states of Alabama, Florida, Georgia, Louisiana, Mississippi, and North Carolina, the Department of Agriculture announced. The entire city of Memphis, Shelby County, Tennessee, has been included because a well established infestation of white-fringed beetles was discovered there in 1948. The Memphis infestation was placed under state quarantine soon after it was found, and a cooperative federal-state control program is now in progress.

Lead Arsenate—Production of acid and basic in January totaled 3,866,000 pounds, compared with a revised amount of 1,648,000 pounds in the previous month and 3,229,000 pounds in January, 1948. Buying interest has remained quiet with sellers no less firm in their views.

Thallium Sulphate—Production has been increased and the market's supply condition has shown improvement. The market is maintained at $15.00 to $17.50 per pound depending upon quantity, delivered.

Sulphur

Lessened inquiry which has featured many chemicals during the past month does not appear to have affected sulphur to any appreciable extent. Demand has been sustained at a satisfactory level and combined shipments from mines are meeting the expectations of producers.

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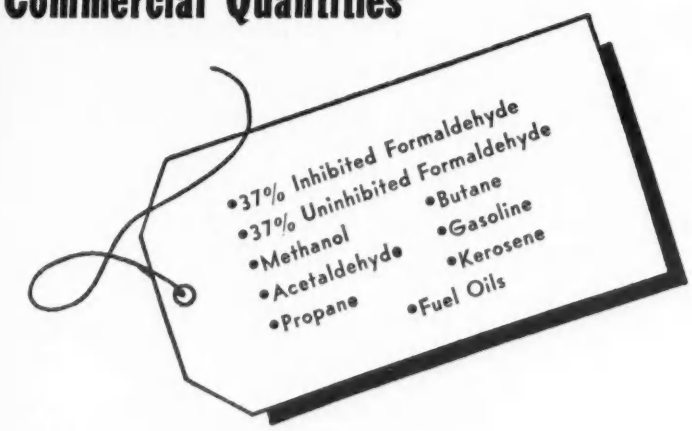

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Petroleum Derivatives

Aromatic and aliphatic solvents held steady in the face of a wide variety of fuel declines along the Eastern Seaboard last week. Neither supply nor demand were materially changed.

Reductions on East Coast fuels, initiated by one major refiner and followed by most other companies, included reductions of 15 cents to 28 cents on No. 6 oil, declines of 18 cents per barrel on light diesel oil, drops ranging from two-fifth cent to nine-tenth cent per gallon on home-heating oil and decreases of two-fifth cent to one cent per gallon on kerosene. Earlier, the seventh round of local price cuts was effected, which lowered kerosene up to one-half cent per gallon and No. 2 oil one-fifth cent.

Following recent declines in Pennsylvania crude oil, one maker of lubes announced price cuts of 5 cents per quart on premium and secondary grades. Postings on crude petroleum were steady.

Demand for petroleum toluol and xylol was quiet, as stocks remained comfortable and prices held firm. Inquiry for aliphatics was equally listless. Naphtha prices were steady, notwithstanding the series of price drops in East Coast fuels. Solvent business generally was expected to pick up within the next week or so, with the start of Spring painting operations.

Because of freer supplies, quota restrictions on the export of aviation gasoline, other motor fuel, kerosene, gas oil and distillate fuel will be lifted as of April 1, the Office of International Trade reported last week. The action removes the quantitative second quarter quotas announced February 11, 1949. Previously, quotas on crude oil, blending agents and residual fuels were removed. OIT pointed out, however, that validated licenses are still required to export all these petroleum products to all destinations.

Solvents and Diluents

Aromatic Solvents—The closing days of the first quarter saw no substantial change in the situation. There was, perhaps, a slight increase in inquiry last week, but, overall, demand was reported slow. Continuance of the coal walkout had little bearing on the petroleum situation, since coaltar consumers appeared to be well-supplied despite reduced mining operations. Producers of petroleum aromatics expected the market to show signs of revival within the next week or so. With the supply position good, many sellers were still said to be offering generous inducements to arouse buying interest. The price structure remained firm at 30c. per gallon, tanks, delivered.

Higher boiling range aromatics and aliphatic-aromatic blends were in correspondingly comfortable supply. Some makers reported that demand had fallen off more than had been previously expected. Many sellers invited all bids, but others, while on the lookout for new business, maintained that stocks were still not sufficiently free to permit wholesale acceptance of new accounts. Pricewise there was no change.

Cleaners' Naphtha—Despite continued weakening in the price structure of fuels, quotations on this solvent and other aliphatics held firm. Demand remained on the sluggish side. Stocks were plentiful. Makers looked for an increase in interest next quarter. This material last week was quoted at 14c. per gallon, East Coast, and at 10⅝c. to 12c., group 3.

Lacquer Diluent—Supplies of all makers were abundant during the past week. The excepted producer reported short stocks because of restricted production capacity. Consuming inquiry, meanwhile, remained at a low ebb. Heightening of interest was expected within the next few weeks when paint manufacturers move their production into high gear. The week's decline in fuel oils had no bearing on prevailing quotations of this aliphatic, as listings held steady at 16c. per gallon, East Coast, and at 12¼c. to 13c., group 3.

Mineral Spirits—The supply position remained excellent during the week, with offerings freely available to all comers. However, buyers continued few and far between. Prices were unchanged at 14c. per gallon, East Coast, and at 10¼c. to 11½c., group 3, although a variety of reductions on fuels were effected on the Eastern Seaboard.

Rubber Solvents—Demand remained a small-volume affair last week, as supplies continued plentiful. Substantial revival of demand was not expected until May when the tire industry swings into its peak production period. Declines in East Coast fuels did not disturb prevailing firmness in this section, as quotations continued at 15c. per gallon, East Coast, and at 11c. to 11¾c., group 3.

Stoddard Solvent—Nowhere in last week's market was there any sign of improvement in the business situation. Demand, though slow last week, was expected to pick up appreciably within the next week or so with the start of Spring painting operations. Stocks were everywhere abundant. Listings were maintained at 14c. per gallon, East Coast, and at 11c. to 11¾c., group 3, despite further drops in fuel oils.

V. M. & P. Naphtha—Apart from one manufacturer, still reportedly low because of limited production capacity, the supply situation continued excellent. Offerings were freely available on contract and spot. Demand was sluggish, but was expected to perk up shortly. Pricewise, the situation was stable at 15c. per gallon, East Coast, and at 11¼ to 12c., group 3, further weakening in fuel quotations notwithstanding.

Market Trends

Prices Advanced
None

Prices Reduced
None

(*For Current Prices see Page 9*)

Lighter Fractions

Liquefied petroleum gases were firm at lower levels last week following recent drops of 1c. and ½c. per gallon on butane and propane, respectively. The supply situation was reported excellent, with ample offerings afloat on the spot market. Demand was unchanged. Butane was quoted at 5c. per gallon, tanks, group 3, while propane commanded 4½c.

Heptane, hexane and pentane were also in plentiful supply, with offerings freely available to all comers. Demand was on the sluggish side, however, and orders were strictly small-volume. Heptane was listed at 12½c. to 13½c. per gallon, tanks, group 3; hexane commanded 13½c. to 14½c., same basis, and pentane brought 10½c. to 11½c., same basis.

Miscellaneous

Crude Oil—Postings in Pennsylvania fields stabilized at lower levels following recent declines of 25c. to 32c. per barrel. Elsewhere the situation was firm.

The American Petroleum Institute reported daily average crude-oil production for the week ended March 12 at 5,123,000 barrels, or 64,000 barrels below the total of the preceding week. Daily average crude runs to stills of 5,452,000 barrels were 63,000 barrels below the revised level of the preceding week and 45,000 barrels above the week ended March 14, 1948.

Fuel Oil—Reflecting improvement in the supply position, prices on heating oil, diesel fuel, heavy fuel oil and kerosene were lowered along the Eastern Seaboard and Gulf during the week. The move, initiated by one major East Coast refiner, was followed by most companies, and at press time it appeared virtually certain that the market would level off at the lower listings within the next few days. Changes made during the week included reductions of 15c. to 28c. per barrel on No. 6 oil, declines of 18c. per barrel on light diesel oil, drops ranging from 2⅝c. to 9/10c. per gallon on home-heating oil, and decreases of 2⅝c. to 1c. per gallon on keresone.

Previously, the seventh round of reductions in the New York metropolitan area was effected, with drops of ½c. per gallon in No. 2 fuel and lowerings of up to

Crude Oil Stocks

Stocks of domestic and foreign crude petroleum at the close of the week ended March 12 totaled 264,171,000 barrels, according to the Bureau of Mines. Compared with the total of 262,817,000 barrels for the preceding week, this represents an increase of 1,354,000 barrels, comprising an increase of 1,954,000 barrels in stocks of domestic crude and a decrease of 591,000 barrels in stocks of foreign crude.

For Late Market Developments, See Page 4

½c. per gallon in kerosene. Arrivals last week totaled 560,207 barrels of fuel oil from Aruba, Willemstad and Curacao.

Lubricating Oil—Following closely on the heels of reductions in Pennsylvania crude, one producer of lube oils last week announced lowerings of 5c. per quart on premium and secondary grades.

Los Angeles Petroleum Market

Good demand was reported here last week for solvents and diluents. Prices remain unchanged. Cleaners' naphtha was quoted at 16.3c. per gallon, tankwagon, ex-tax.

Propane and butane have been moving steadily. Prices are unchanged. Both materials last week were quoted at 9.3c. per gallon, tankcars, f.o.b. Wilmington, Calif.

The paraffin wax market is steady. Prices are firm. High melting point, 140-147 ASTM, carload, loose slabs, f.o.b. shipper's refinery, San Francisco Bay area, 7.35c. per pound; 146-148 ASTM, 7.55c. per pound, and 157-162 ASTM, 9.1c. per pound. Tankcar prices in the order named are 7c., 7.2c. and 8.75c.

Sun Oil Co. Establishes Canadian Production Div.

Creation of a Canadian division of Sun Oil Company's production department, with offices in Calgary, Alberta, was announced March 23 by John G. Pew vice-president in charge of production. George E. Dunlap, former division landman at Dallas, Tex., was named manager of the newly-created Canadian division and George E. Bentley, who has been identified with Sun's Canadian exploration for the last three years, has been placed in charge of field operations.

API Refining Division Midyear Meeting Apr. 4-7

The fourteenth midyear meeting of the division of refining of the American Petroleum Institute will be held at the Shamrock hotel, Houston, Tex., on April 4 to 7. The program calls for seven group gatherings and twenty-nine committee and subcommittee sessions. In addition, certificates of appreciation will be presented to three petroleum technologists for their contributions to refining and standardization.

Dow Chemical Transfers Sale Of Cathodic Protection Items

Dow Chemical Company, Midland, Mich., has transferred sale of its cathodic protection products for retarding electrolytic corrosion of pipelines and industrial equipment from its magnesium sales division to Dowell, Inc., a wholly owned subsidiary. The line includes five sizes and types of cored magnesium anodes, "Galvopak" package unit in two sizes, and "Galvoline" cored magnesium ribbon.

Socony-Vacuum Has New Oil

Socony-Vacuum Oil Company, New York, has announced a new heavy-duty type "Mobiloil," the first automotive lubricant evolving from the company's refinery modernization and expansion program. It is now available at all company service stations. It is said to have exceptional oxidation resistance and chemical stability, powerful detergent action and a high viscosity index.

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SPECIFICATIONS

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212Y	195 - 200	2½ - 5	2½ - 3½	NIL	NIL
510Y	190 - 200	4 - 8	2½ - 3½	NIL	NIL
SEROX	MELTING POINT	PENETRATION 100 GRAMS 77° 5 SECONDS	COLOR NPA	ACID NUMBER	SAPONIFICATION NUMBER
66	180 - 185	6 - 8	6 - 8	30 - 40	75 - 90
88	180 - 185	5 - 8	5 - 7	15 - 25	55 - 75

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As the chemical marketing affiliate of Esso Standard Oil Company, ENJAY* COMPANY is backed by the nation's largest petroleum research facilities. To our customers this means prompt delivery in any quantity — from drums to tank cars — of top quality, uniform, oxygenated solvents and hydrocarbons.
For complete information on uses and properties of the ENJAY products listed below, drop us a line. You'll find our technical staff always ready to supply any data and guidance you may need. Write today.

ENJAY SOLVENTS
PETROHOL* Isopropyl Alcohol (91%, 99%)—$CH_3CHOHCH_3$
Secondary Butyl Alcohol—$CH_3CHOHCH_2CH_3$
Isopropyl Acetate—$CH_3COOCH(CH_3)_2$
Secondary Butyl Acetate—$CH_3COOCHCH_2(C_2H_5)$
Isopropyl Ether—$C_6H_{14}OC_3H_7$
Methyl Ethyl Ketone—$CH_3COC_2H_5$

ENJAY HYDROCARBONS
Butadiene—$CH_2{:}CHCH{:}CH_2$
Isobutylene—$CH_2{:}C(CH_3)_2$
Diisobutylene—$CH_2{:}C(CH_3)CH_2C(CH_3)_3$†
Triisobutylene—$CH_2{:}C(CH_3)CH_2C(CH_3)_2CH_2C(CH_3)_3$†
† Other isomers also present.

CTLA POLYMER—An economical heat-reactive, aromatic-type olefinic hydrocarbon. Highly unsaturated. Dries by polymerization and oxidation. Miscible in all proportions with drying oils. Compatible with most resins.

*Trade Marks
ENJAY
ENJAY COMPANY, INC.
15 West 51st Street
New York 19, N. Y.

Barrett*

For your convenience, THE BARRETT DIVISION, Allied Chemical & Dye Corporation, announces the following price schedules for Tar Acids and Tar Acid Specialties, effective March 28, 1949:

		Tank Cars	Non-Returnable Drums Included Carloads	L.C.L.
Cresol, U.S.P.	lb.	$.16	$.173	$.176
Cresol, Meta Para 2°C B.R.	lb.	.175	.188	.191
Cresol, Meta Para 2-3°C B.R.	lb.	.17	.183	.186
Cresol, Meta Para 3-4°C B.R.	lb.	.165	.178	.181
Cresol, Meta Para 4-5° C B.R.	lb.	.16	.173	.176
Cresol, Ortho, 30.4°C M.P.	lb.	....	.2405	.2435
Cresol, Ortho, 29°C M.P.	lb.	....	.2305	.2335
Cresol, Ortho, 26-27°C M.P.	lb.	.195	.208	.211
Cresol, Special Grades, over 5°C B.R. Under 10% Phenol	lb.	.16	.173	.176
Cresol, Special Grades, over 5°C B.R. Phenol 10% Min.	lb.	.1575	.1705	.1735
Cresol, Special Grades, 50% below 204°C Dry above 208°C	lb.	.1575	.1705	.1735
Cresol, Special Grade, 3% Max. Ortho	lb.	.165	.178	.181
Cresylic Acid, 50% @ 204-207°C	gal.	1.35	1.46	1.49
Cresylic Acid, 50% @ above 207°C	gal.	1.30	1.41	1.44
Cresylic Acid, 95% Dark	gal.	1.25	1.36	1.39
Cresylic Acid, 85% Dark	gal.	.85	.96	.99
Xylenol Fractions, over 7°C B.R.	gal.	1.30	1.41	1.44

F.O.B. our plant, Frankford, Philadelphia, Pa., freight equalized with Newark, N. J., Follansbee, W. Va., or Indianapolis, Ind.

West Coast shipments by water:—F.A.S. Philadelphia, Pa.

Returnable drums are optional, on deposit, at the same prices as quoted for non-returnable drums.

TAR ACID SPECIALTIES

Para Cresol 98-100%	lb.	....	....	.50
Para Cresol 92-94%	lb.	....	....	.47
Meta Cresol 70-75%	lb.	....	....	.30
Meta Cresol 80-82%	lb.	....	....	.35
Para Chlor Meta Cresol — Fibre Drums	lb.	....	....	1.20
Para Chlor Meta Xylenol — Fibre Drums	lb.	....	....	1.50

F.O.B. our plant, Frankford, Philadelphia, Pa.
West Coast shipments by water:—F.A.S. Philadelphia, Pa.

TERMS: Net cash 30 days from date of invoice.

THE BARRETT DIVISION
ALLIED CHEMICAL & DYE CORPORATION
40 RECTOR STREET, NEW YORK 6, N. Y.

America's leading manufacturer of coal-tar products

* Reg. U. S. Pat. Off.

Coaltar Chemicals

One producer last week dropped its quotations on tar acid oil and 74 degree crude naphthalene. Announcement was also made during the period that, effective today, there would be revised prices for USP and technical cresol, high boil and low boil cresylic acid and xylenol fractions.

The same producer also announced that it was going over from a works to a freight equalized basis and was now offering the material drums included where formerly the drums had been returnable. There was no word on what other producers were planning to do, although it was thought that there might be further announcements coming soon, since this week would see the beginning of a new quarter.

The index figure for last week dropped .1 point. Figuring of the index is done on a weekly basis, and since some price revisions were not to become effective until today, they would not have their effect on the index until the end of this week.

Naphthalene for mothproofing showed a decided increase in sales during the week. As Spring began with warm weather, orders for the material began to come in and producers were hoping that the weather would continue as it started for that would undoubtedly mean a greater turnover for them. Prices were still holding and supplies were adequate but just what the volume of sales would be this year was a hard thing to tell. The weather would, of course, be the deciding factor, but there were such side considerations as inventories held by jobbers and retailers and the amount that housewives might have left over from the past season.

Except for a few items, supplies were free. Demand was still off somewhat from the levels that were noted during the last quarter of the past year. Some producers were expecting that a general pickup in Spring business activity would have a strengthening influence on demand, but others preferred to wait and see just what would happen.

Despite the shutdown in the coal mining industry, steel production last week was again set at a high point. The American Iron and Steel Institute reported that companies having 94 percent of the capacity of the industry were scheduled to operate at 101.1 percent of rated capacity. Last week was the tenth consecutive period during which the industry had operated at 100 percent or better. Never before in the history of the industry had there been even ten non-consecutive weeks in a single year at which the industry functioned at such a high level.

Basic Products

Benzol—Market conditions for this material last week were in a position largely unchanged from that of the previous week. Prices were reported to be holding at their former levels and there were no indications that there were any revisions in prospect for the immediate future. It was said by one source that the demand for the item seemed to be slightly improved during the period, although this was qualified by the explanation that the producer really intended to convey the idea that there was no suggestion of a letdown in demand. Reports were current in the trade last week concerning a pending decision on the shipment of an order of approximately 800 metric tons to the Far East. Such an order, it was said, would have a strengthening influence on the market. One reliable source in the trade said that this was true enough, but that such an order still represented only about one week's production, so it could not have as great an influence on the market as might be indicated. The origin of the order was said to be Japan.

Coaltar—There were no changes reported in the price of this material during the past week, nor were there any indications that there would be any in the immediate future. The supply of the item was reported to be somewhat easier in recent weeks than it was a few months back, although there was no overstock of it reported to be flooding the market. Tank-car lots were available again, after the long period during which producers found it difficult to fill orders in that quantity, but recently there was little demand for the material in such quantities. The demand was not what it was before the first of the year but it was still said to be holding up at fairly good levels.

Creosote—The market picture for this item showed no particular change during the past week. Supplies were still at a high level as the result of a good domestic production, coupled with considerable imports of the material. Demand was not sufficient to take all of the material off the market, although the requests for the product were still reported to be holding up to a fairly good level. There were no changes reported in the price schedules and there were no reports of any planned for the immediate days to come, although it was known that some sellers on the high side of the range were willing to shade their prices if orders of good size were forthcoming.

Opinions still varied as to what the future might bring forth in regard to selling conditions for this item. Some felt that the year ahead could still be a good one, and were of the opinion that there was a considerable backlog of orders that were not placed last year and which would need filling this year. Others thought that high prices of most goods, and particularly of construction material, would tend to discourage building this year, and would therefore tend to bring down the demand for creosote. It was still a bit too early in the season to tell what sort of year the construction industry would have, but it was felt that in the not too distant future it would be possible to determine pretty much which way the wind would blow.

Cresol—One producer announced that as of today it was dropping the price listings on its USP material. At the same time it was to shift from a works to a freight equalized basis and was to sell the material drums included, where previously it had been selling drums extra on deposit. The tanks price was to become 16c., dropping from 18½c. The new less carload price to be 17⅝c., where formerly it was 19¾c. and the carload quotation was to become 17-3/10c., dropping from 19¼c. The technical grade, on the same basis, was also set to show a drop today. The tanks price was to become 15¾c. as opposed to the old price of 18¼c. In less than carload it was to be 17-7/20c., where formerly it was 19½c. The carload price was to become 17-1/20c. as opposed to the old price of 19c.

Imported material during the past week was reported to be freely available, and there was not any great demand being noticed for it. The demand for the domestic material was not at an especially high point, although it was still reported to be at good levels. Stocks of it were sufficient for normal ordering.

Cresylic Acid—New price schedules, to become effective today, were announced by one producer. The same source also announced that it was going over from a works to a freight equalized basis and was now selling drums included, where formerly it had drums extra. For the high boil, 50 percent, 210°-215°, the tanks price was to remain unchanged at $1.30. The new price in less than carload lots was to become $1.44, as opposed to the old figure of $1.39. The carload figure was to become $1.41, while the old listing was $1.36. It was said that these actually did not represent a change in price, but merely covered the price of the drum. For the low boil, 50 percent, 204°-206°, the same producer also announced new prices, with

Market Trends

Prices Advanced
None

Prices Reduced
Naphthalene, 74°, crude, ¼c. per lb.

Comparative Price Indexes
(100=August 1, 1914)

Last week	Prev. week	Last month	Last year
137.9	138.0	141.3	147.3

(For Current Prices see Page 9)

Coke By-Products

Estimates of by-product cokeoven operations in the week ended March 19 indicate the following output of by-products from that source:—

Ammonia liquid, NH_3	lbs.	1,302,877
Ammonium sulphate	lbs.	33,738,703
Benzol	gals.	4,251,625
Coaltar	gals.	15,772,158
Creosote oil	gals.	877,754
Naphthalene, crude	lbs.	2,084,667
Phenol	lbs.	246,868
Toluol	gals.	850,325
Xylol	gals.	192,008

For Late Market Developments, See Page 4

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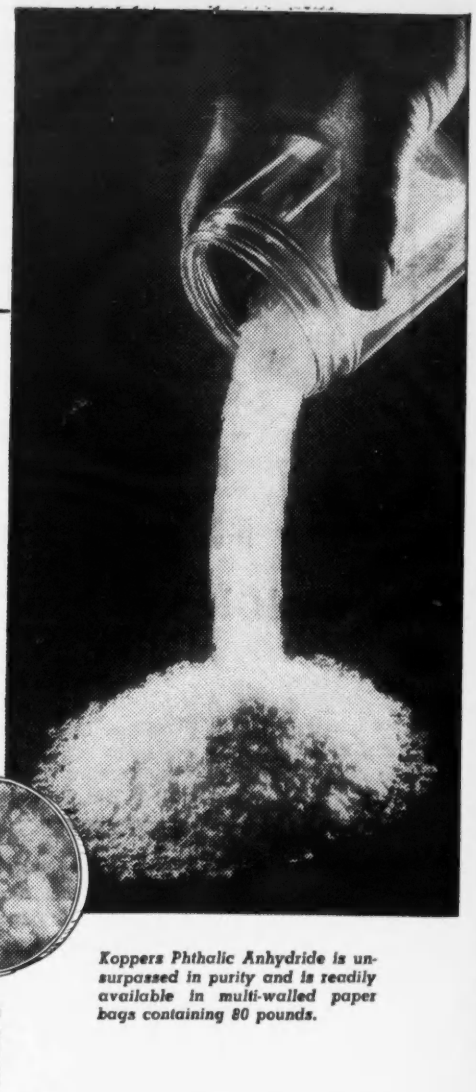

Koppers Phthalic Anhydride is unsurpassed in purity and is readily available in multi-walled paper bags containing 80 pounds.

drums included and freight equalized. In tanks the price was to become $1.35, dropping from the old listing of $1.40. The l.c.l. and c.l. prices were to remain at $1.49 and $1.46 respectively, but now would include drums.

Supplies of the domestic item were sufficient to satisfy the market, although the demand was reported to be not at particularly high levels. The imported was not in a great demand and according to some sources, there was some of the item that had to go begging for a market.

Naphthalene—One producer announced last week that it had reduced the price of its 74° crude naphthalene from 6¼c. to 6c. in tanks. There were no prices available for bags or barrels. The same producer also went over to a freight equalized basis from a works basis. There were no revisions announced for the 78° or the refined material.

The Spring weather this year got off to a warm start, and that meant a good start to the sellers of naphthalene for mothproofing. It was reported last week that after a period of waiting to see what the weather would do, sales suddenly picked up as the weather turned warm. One of the largest producers of the material said during the week that if there should be a period of about ten days of warm weather there would probably be a considerable spurt in orders. Such a turn in the weather, it was pointed out, would have an effect on jobbers, retailers and housewives that would certainly be responsible for moving large quantities of the item.

The sales of naphthalene for mothproofing were reported to be at least as good so far this year as they were during the comparable period last year, and probably somewhat better. Last year's total sales were not all that the trade hoped for, but so far the signs of an early Spring were proving the boon needed by the industry and the principal hope was that the warm weather would last. No one could say just what the total sales would be but the guesses were still being made. All were pointing to the weather as a determining factor, but others said that last year's mediocre sales should encourage business this year, and reasoned that housewives who bought little probably had no mothproofing material left. Others felt that since sales were slow last year, retailers and jobbers might be well stocked for this season.

Phenol—The current price schedule of one producer of synthetic phenol in tankcar and carload quantities in the states west of and including Montana, Wyoming, Utah and Arizona was on an f.o.b. works basis, freight allowed. Tankcars in this area were quoted at 13¾c. per pound, fifty-five gallon drums were quoted at 15.81c. per pound and in 200 pound drums the price was 16.81c. Less than carlot quantities were not quoted.

In the rest of the United States, price quotations were on an f.o.b. works basis, freight allowed, with tankcars quoted at 12½c. per pound, fifty-five gallon drum carloads at 14¼c., and 200 pound drum carloads at 15¼c. In quantities of 1,000 pounds or more, fifty-five gallon drums were quoted at 15c. and 200 pound drums at 16c. In quantities of less than 1,000 pounds, fifty-five gallon drums were quoted at 16c. and 200 pound drums at 17c. All quantities in this area were on the freight allowed basis.

On liquid phenol, based on the phenol content, the prices quoted were 1c. higher in the west, and ½c. higher in the rest of the United States.

Pyridin—Demand for this material was not at especially high levels although the stocks were sufficient to accommodate normal ordering. The pharmaceutical material was an exception, however, for here it was reported that the demand was good but that there were no great amounts of it available. Prices held to their previous levels during the period under review.

Toluol—Demand for this material last week was reported to be at least as strong as during the previous period, if not a slight bit better. Stocks were free and buyers were reportedly having no difficulty in having their orders filled. The price structure remained unchanged and there were no indications that there were any immediate revisions in prospect.

Xylol—Prices held to their former levels during the past week and there was no word from the trade that suggested that revisions were immediately in prospect. Supply was still good and the demand was holding up to the levels of previous weeks, although it was not quite so strong as it was before the turn of the year.

Intermediates

Phthalic Anhydride—Prices of this material we reportedly still holding at their previous levels during the past week, with

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no indications that there would be any revisions in the immediate future. Supplies were still at a high point, and although there was a demand for the item, it was not sufficient to take all of the material off the producers' hands.

Tar Acid Oil—The producer who had been on the high side of the range announced during the past week that it had dropped its quotations to meet the figures on the low of the range. This meant that there was no longer a high side. The producer also was offering the material drums included, where formerly it sold in returnable drums. The new quotations were: — 15-18 percent, tanks, 38c., l.c.l., 49c. and c.l., 46c.; 25-28 percent, tanks, 45c., l.c.l., 56c. and c.l., 53c. This producer was now offering the material freight equalized.

Xylenol Fractions — One producer announced that as of today it was putting the material on a new schedule, with freight equalized where formerly it was on a works basis, and with drums included as against the old system under which the drums were extra. In tanks the material was to be $1.30, where formerly there was a range of from $1.30 to $1.50, depending on boiling range. The l.c.l. price was to become $1.44, where formerly it ranged from $1.39 to $1.59, according to boiling range. In carload quantities, the material was to sell now at $1.41, where previously, depending on boiling range, it was $1.36 to $1.56.

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Ink—Plasticizer in rotogravure, stamppad, and textile inks.

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Metal-Fabricating—Plasticizer in compositions, containing alkyd resins, used as coatings for protecting and decorating metallic articles.

Miscellaneous—Plasticizer in coating compositions, containing alkyd resins, used for protecting and decorating articles of various sorts.

Paint, Varnish, and Lacquer—Plasticizer in paints, varnishes, lacquers, enamels, and dopes containing alkyd resins.

Paper—Plasticizer in compositions, containing alkyd resins, used in the manufacture of coated papers and as coatings for decorating and protecting articles made of paper or pulp.

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Leather—Plasticizer in compositions, containing vinyl resins and cellulose derivatives, used in the manufacture of artificial leather and as coatings for protecting and decorating leather and leather goods.

Metal-Fabricating—Plasticizer in coating compositions, containing vinyl resins and cellulose derivatives, used for protecting and decorating metallic articles.

Miscellaneous — Plasticizer in coating compositions, containing vinyl resins and cellulose derivatives, used for protecting and decorating articles of various sorts.

Paint, Varnish, and Lacquer—Plasticizer in paints, varnishes, lacquers, enamels, and dopes containing cellulose derivatives and vinyl resins.

Paper—Plasticizer in compositions, containing vinyl reisns and cellulose derivatives, used in the manufacture of coated papers and as coatings for protecting and decorating articles made of paper or pulp.

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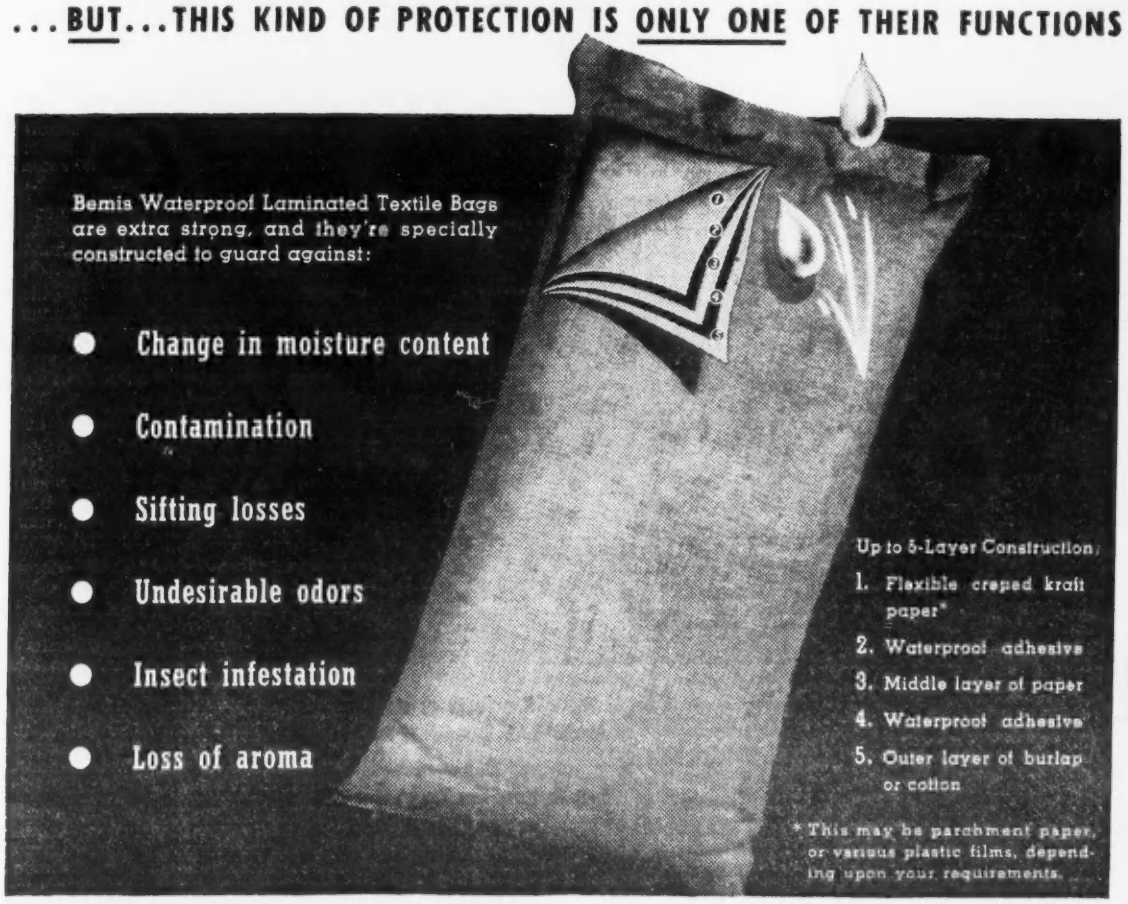

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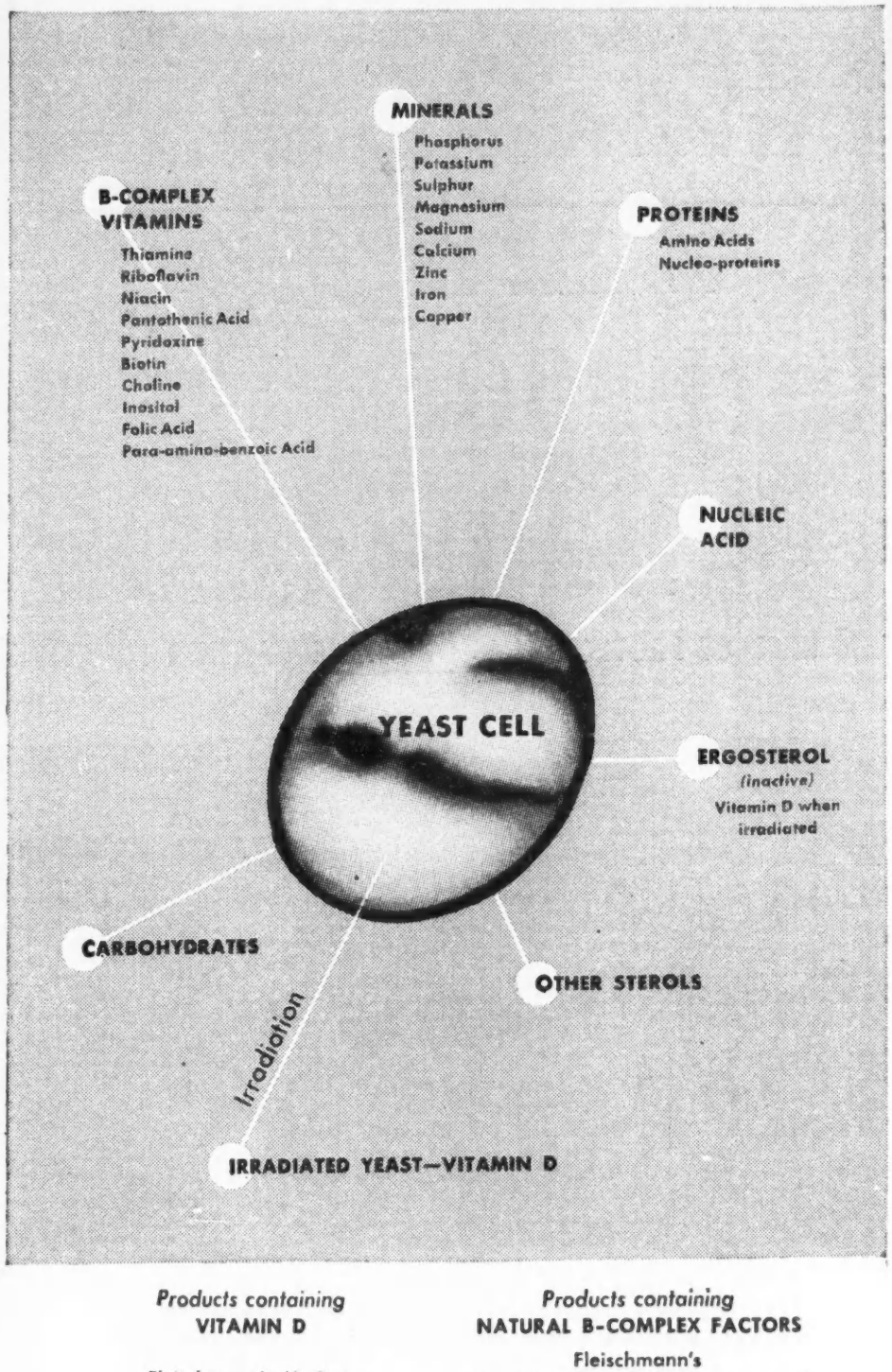

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A recent report* reviews some of these findings:

"Before the first World War and throughout its duration, the major interest in yeast centered on its protein content. This had been shown to be as high as 40 to 50 per cent and of a highly digestible nature. Shortly before the war, discoveries were made pointing to the presence in yeast of growth-stimulating and disease-preventive and curative substances, later to be designated as accessory food substances or vitamins."

"... Many studies were made of yeast as a carrier of the B-complex groups of vitamins, particularly thiamine, riboflavin, niacin, pantothenic acid, and pyridoxine. Likewise, yeast has been studied as a protein food, rich in the amino acids essential to the proper nutrition of both man and animal. These studies have established yeast as a food material of considerable potential importance."

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*"Brewer's Yeast in Human and Livestock Nutrition" by C. C. Prouty, State College of Washington.

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Drugs and Fine Chemicals

Tartaric acid, cream of tartar and Rochelle salt were reduced 3 cents per pound late last week. Seidlitz mixture was reduced 2 cents. The long expected break in natural glycerin prices came last week in one spectacular drop of 14½ to 15¾ cents per pound depending upon the grade. Back of the price drop were the factors of increasing supplies and the impact of synthetic glycerin upon the market at a price roughly equivalent to 24 cents per pound delivered. Milk powder markets were assuming a more firm tone, and roller process skimmed milk powder advanced ½ cent per pound. Castor oil was down ½ cent per pound in drums and ¾ cents in tankcars. Streptomycin and dihydrostreptomycin were sharply reduced in price. The index dropped 0.8 point becoming 256.7.

An agency for the Federal government is offering in open sale more than 200,000 ounces of cinchonine and salts, more than 180,000 ounces of cinchonidine and salts, and over 1,500 ounces of certain quinine salts.

The drug business in general remained quiet, and this situation was also characteristic of the chemical industry in which most items were reported to be off in demand from 10 to 15 percent.

Acid, Tartaric—This material was reduced in price by 3 cents per pound on both the fine granular and the powdered forms last week. Business was reported as slow, and demand was said to have been at a low level for several months.

Current quotations of domestic production were now at 34½ cents in 10,000 pound lots and 35 cents in drums of over 200 pounds. Imported material in kegs was quoted at 34 to 36 cents per pound for domestic sale in various quantities.

Alcohol—The price structure of ethyl alcohol in which pure tax free material was quoted at 21c. per gallon established on February 25 has remained unchanged for a month. During this time producers have been selling alcohol on a delivered basis at the prices quoted for each grade of alcohol as of February 25. This price level is below producers' costs, whether the alcohol is made by the fermentation process or synthetically from petroleum derivatives. Accordingly, producers have been limiting sales in so far as possible to the immediate needs of established accounts, although some very few producers have been willing to take on new accounts even at current prices.

That prices should be advanced to a point where the alcohol industry would become a profit operation instead of a loss, was generally conceded. But while virtually all producers wanted to see alcohol prices advanced, the market situation was so competitive that no producer was willing to be the first to move in the market with an advanced price schedule for fear that other producers would not follow along.

The molasses situation in Cuba was reported as clarifying somewhat and with the clarification it became all the more evident that to make a profit on alcohol, prices would have to be advanced. However, the extent of such advance in the coming weeks was certain to be limited. In a market as competitive as alcohol, the action of any one major producer is sufficient to affect the entire market with respect to the low side of price quotations. One producer is reported to have contracted April business at current levels, and the degree to which prices can be raised in the second quarter was limited by the guaranteeing of prices to contract consumers by some other producers to a ceiling of 30c. per gallon on pure ethyl alcohol.

Castor Oil—Castor oil dropped ½c. per pound in drums and ¾c. in tanks last week. Castor beans were nominally quoted at from $105 to $110 per long ton, which was of little significance because there were no offerings reported and the nominal price was based wholly on buyers' ideas.

Arrivals of beans last week totaled 77,107 bags equivalent to 11,566,050 pounds, compared with 34,421 bags or 5,163,150 pounds the previous week, and 3,367 bags or 505,050 pounds during the corresponding week of last year.

Total arrivals since January 1 of this year amounted to 648,016 bags or 97,192,400 pounds of beans, compared with 404,835 bags equivalent to 60,725,250 pounds during the corresponding period of last year.

Cinchonidine and Salts—Elsewhere in this issue an agency of the Federal government lists for open sale more than 180,000 ounces of cinchonidine alkaloid and its salts. Just what effect this will have on the market for these materials could not be determined. Prices over recent weeks have been firm.

Cinchonine and Salts—There is listed elsewhere in this issue by an agency of the Federal government, some 200,000 ounces of this alkaloid and its salts for open sale. In recent weeks the price position of these items in the market have been relatively stable.

Codliver Oil—Pricewise there was no change in the codliver oil market since the reduction of 20 cents per gallon which occurred last January. Supplies were regarded as likely to be short during the coming year. Arrivals of codliver oil at New York last week amounted to a total of 1,523 drums from St. Johns, from Bergen, and from points in Iceland.

Copper Citrate—The demand for this item was reported as quiet and trading in the USP material was largely confined to small quantities. Five pound jars were quoted at $2.40 per pound.

Copper Sulphate—The USP grade of copper sulphate was quoted under a firm price position of 25 cents per pound in 300 pound drums. Demand was reported as steady at a somewhat lower volume of trading than usual, in line with the general business trend current prevailing.

Cream of Tartar—A price reduction of 3 cents per pound was effected last week on domestic production of this material. Demand was reported as slow and supplies were abundant. The new schedule quoted 5,000 pound lots at 29½ cents per pound, and drum quantities at 30 to 31 cents per pound. Imported material in kegs was quoted for domestic sale at 24 to 26 cents per pound, depending upon the quantity.

Dihydrostreptomycin—A sharp price reduction on this item was affected last week in which the ultimate net price to hospitals was reduced by 48 cents per gram for the one gram vials of dihydrostreptomycin sulphate, and at the wholesale level the net price was reduced by 39 cents per gram. After the usual discounts, the net price to hospitals on the new schedule was 80 cents per gram and to wholesalers the new net price after discounts was 64 cents per gram.

Demand was continuing at a high level for the dihydro product. Supplies, however, were described as generally adequate under an expanding production schedule in the face of increasing use.

Ephedrine—Some 29 casks of this material arrived at New York last week. This was regarded as an unusually large shipment. Meanwhile, demand for ephedrine salts were on their usual seasonal decline as the summer months approached. Prices of the alkaloid and its salts were holding firm to levels established some months ago.

Glycerin—The long expected break in glycerin prices came last week in one spectacular drop of 14½ to 15¾ cents per pound depending upon the grade. This price change set a new record for the size of any single change in the glycerin market. Price fluctuations for many years were generally on the order of ½ to 1 or 2 cents per pound up or down. The sharpness of this price drop of some 15 cents per pound was, as a price change, not without some precedence. In November of 1947, glycerin prices were advanced suddenly by 10 cents per pounds which prior to that date was the largest single change glycerin had made.

Back of the drop in natural glycerin prices, however, were certain factors which caused OPD to report in February

For Late Market Developments, See Page 4

Market Trends

Prices Advanced

Milk powder, skimmed, roller process, ½c. per lb.

Prices Reduced

Acid, tartaric, 3c. per lb.
Castor oil, medicinal, tanks, ¾c. per lb.
Cream of tartar, 3c. per lb.
Diethyl oxalate, dms., 1c. per lb.
Dihydrostreptomycin, hospitals, 48c. per gram,
wholesalers, 39c. per gram.
Glycerin, crude, saponification, 3¼c. per lb.
soaplye, 4¾c. per lb.
Dynamite, 15¾c. per lb.
High gravity, 15½c. per lb.
Refined, BP, 88%, 14½c. per lb.
USP and CP, 95%, 15c. per lb.
Yellow, distilled, 15¼c. per lb.
Rochelle salt, 3c. per lb.
Seidlitz mixture, 2c. per lb.
Streptomycin, hospitals, 48c. per lb.
wholesalers, 39c. per lb.

Comparative Price Indexes

(100—August 1, 1914)

Last week	Prev. week	Last month	Last year
256.7	257.5	257.5	255.2

(For Current Prices see Page 9)

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21 issue that when the price break came it would probably be all at once and on the order of 15 cents per pound. This was largely based on the fact that glycerin produced synthetically from petroleum was then being sold on contract f.o.b works at a price roughly equivalent to 24 cents per pound delivered. Thus, the few consumers of synthetic glycerin enjoyed a marked advantage in costs over consumers of natural glycerin in the manufacture of materials in which glycerin is an intermediate.

In such fields as the manufacture of alkyd resins, where the resins are sold in a highly competitive market under a very narrow profit margin, the difference in glycerin costs became significant. Accordingly, natural glycerin producers moved to eliminate this price advantage of synthetic glycerin to enable their customers to compete, so far as glycerin was concerned, with products containing synthetic glycerin.

The price move was not made until production of synthetic glycerin had reach a volume where it exerted a sufficient impact on the glycerin-consuming industry along the lines just presented.

Another motivating factor behind the drop in natural glycerin prices was the supply and demand relationship. Inventory reports indicated that stocks were on the increase. Natural crude glycerin is a byproduct. The price of which in part is determined by the price of soap. Also, the price of crude is influenced by the supply and demand for soap, crude glycerin, and refined glycerin. Accordingly, the improved supply position was a contributing factor to the recent decline. However, the feeling was that the extent of the decline was markedly influenced by the contract price level of synthetic glycerin.

In the new price schedule on a delivered basis, drum carlot quantities are ½c. higher and less than carlot drum quantities are 1c. higher than the following tankcar prices:—Dynamite grade, 23½c. per pound; high gravity, 23¾c.; refined BP 98 percent, 25c.; CP and USP 95 percent, 24¼c.; and yellow distilled, 23⅝c. per pound. Crude glycerin prices were reduced from 4¾c. to 5¼c. per pound. In tankcars saponification grade on an 88 percent basis was quoted at 16¾c. per pound, and soaplye grade on an 80 percent basis at 15¼c. per pound. Imports last week from Havana amounted to 172,174 pounds.

It was learned that a plant is being built in Cuba to produce glycerin by the dialysis of fermentation products. This should consume part of the estimated 2,000,000 tons of excess sugar which will be produced this year over and above the estimated market for Cuban sugar.

Methanol — Natural methanol production was reported by the Bureau of Census at 198,000 gallons in January, compared with 181,000 gallons in December, and 219,000 gallons in January a year ago.

The methanol situation was one of an easy supply position in which production was being curtailed to keep it in balance with the seasonally declining demand, so far as synthetic material was concerned, and there was no indication that the price would be reduced as a result of the easier supply position. Ethyl alcohol was slated to advance in price in the not too distant future, but the rise was expected to in no event exceed the 30c. per gallon level for pure alcohol until the midyear. However, the ethyl alcohol price situation was not held to be any serious threat to the price position of methanol because of the limited area of the overall market in which ethyl and methyl alcohol are directly competitive.

Menthol—The demand for menthol was still reported to be quiet, and the volume of trading remained limited to essential needs. Prices were unchanged from quotations of the previous week. Imports from Santos arriving at New York during the week amounted to 175 cases.

Methylethyl Ketone—The price position of this important ketone solvent for the second quarter was unchanged from levels prevailing during the first quarter. There were quite ample stocks available, and prompt shipment could be had in almost any quantity. However, pricewise the market was regarded as firm, and the rumored threatening of a price reduction by virtue of the ester solvent situation was regarded in informed circles as mostly wishful thinking.

Milk Powder — Prices tended to firm last week on skimmed milk powder under the stimulus of government purchases. Quotations on roller process material varied from 10½c. to 12¾c. per pound, but most of the material moved at a price ranging from 11c. to 11½c. Spray process quotations varied from 11c. to 13¾c. per pound, but the major portion of sales were made in the range of 12c. to 13¼c. it was reported.

Large stocks were being gradually reduced by government purchases and the market while showing some greater strength pricewise, still was commercially limited to trading in bare immediate needs. Out of 11,574,525 pounds of spray process skimmed material offered, CCC purchased 6,136,350 pounds at 11.855c. to 12.54c. per pound. Out of 3,949,653 pounds of roller process skimmed milk powder offered, CCC purchased 3,047,653 pounds at 9.85c. to 10.52c. per pound. These purchases were made on an f.o.b. works basis. The calculated prices delivered to ports of export were 12.6784c. to 12.928c. for the

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spray process material and 10.6316c. to 11.331c. for the roller process material.

Pectin—The current price position of citrous pectin in powder form was around $1.42 to $1.43 per pound for the technical grades in 100 and 200 drum quantities. The NF grade was quoted at $2.05 and $2.06 per pound for comparable quantities. Supplies were reported as quite adequate to meet all calls with prompt shipment.

Quinine and Salts—Among the alkaloid materials offered elsewhere in this issue for open sale by an agency of the Federal government are some 1,500 ounces of quinine salts. Most of these were for those salts which normally are in lesser demand than some of the major ones.

Reports from Indonesia indicate that sales of cinchona bark are less than half the prewar level. In order to maintain an equilibrium between world supply and demand, the Indonesian government hopes to reach an international agreement. Productive capacity of Indonesia was said to potentially far exceed the consumption. Since unlimited output would tend to lead to excessive stocks and dislocate regular sales at reasonable prices, production is being geared to demand. In an effort to expand sales the government of Indonesia and the organization set up to handle production of cinchona will sell cinchona to quinine manufacturers who did not participate in the prewar international cartel at the same price as to those who did. Prospective purchasers may buy direct from the cinchona producers in Indonesia, or through the Department of Economic Affairs in Batavia.

Rochelle Salt—Both the fine granular and the powder form of this USP material were reduced 3 cents per pound last week. In 5,000 pound lots the material was quoted at 28½ cents per pound, while drums were listed at 29 to 30 cents depending on the size of the drum.

Seidlitz Mixture—A 2c. per pound reduction was effected on this item late last week. Trading was reported as generally quiet, and demand was said to be at a steady low level with supplies quite ample. Prices currently quoted on 5,000 pound lots and in drums were 25¾c. and 26¼c. per pound, respectively.

Silver Nitrate—January production of silver nitrate was reported by the Bureau of Census at 3,544,000 ounces, compared with 4,226,000 ounces in December, and 4,219,000 ounces in January of last year. Prices were holding firm to the level prevailing in recent weeks.

Streptomycin—A further sharp reduction on this item was made last week. The price of the calcium chloride complex in one gram vials to hospitals was quoted at a net after discount of 80 cents per gram. The net price to wholesalers after discounts was 64 cents per gram. This was equivalent to a reduction in net prices of 48 cents per gram at the hospital level and 39 cents per gram at the wholesale level. The production and supply situation on streptomycin was such as to meet all domestic necessities with increasing quantities available for export.

Sugar—During January 1949 sugar deliveries totaled 10,426,122 bags of refined sugar of 100 pounds each. For the week ended March 12, primary sugar distribution on a raw basis amounted to 132,198 short tons, compared with 132,805 tons for the week ended March 5.

It was estimated in Cuba that the Cuban sugar production this year would be 6,000,000 tons, for which there appears to be a market for no more than 4,000,000 tons, leaving an excess of some 2,000,000 tons. Accordingly, industrial uses for the excess material are being sought. A plant in Cuba is being built to produce glycerin by the dialysis of fermentation products.

Arapahoe Expands Lead Tetra-Acetate Production

Arapahoe Chemicals, Inc., Boulder, Colo., is currently offering lead tetra-acetate in moderate commercial quantities, and oxamide in semi-commercial amounts.

Lead tetra-acetate is supplied in the form of white to pink crystals moistened with glacial acetic acid, active ingredient 85 percent to 95 percent. The manufacturer has pointed out that the compound is not indefinitely stable to storage and should be ordered for immediate use. A technical data sheet containing a summary of the reactions of the compound may be obtained from the company.

Oxamide, a white crystalline powder having a melting point of 419 degrees Centigrade, is said to offer a stable anhydrous derivative of oxalic acid for organic synthesis. Further information and free laboratory samples may be obtained from the company.

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Marshall Plan Deliveries Deadline Set at June 30

The period during which delivery of goods may be made against fourth quarter, 1948, procurement authorizations to Marshall plan countries has been extended to June 30, provided contracts are completed before April 1, the Economic Cooperation Administration announced on March 24.

Letters of commitment on these authorizations have already been extended to July 31, allowing United States suppliers one month after expiration of the authorizations to collect documents and present them to banks for payment.

Deliveries against first quarter 1949 procurement authorizations must also be made by June 30. ECA has now eliminated the provision that suppliers must promise delivery within the quarter specified on the authorization. Contracts, however, must have been made before April 1. ECA has also asked participating governments to instruct their local banks, which have opened credits with American banks, to authorize extension of these credits against fourth quarter 1948 and first quarter 1949 authorizations.

Kay-Fries Introduces Flake Phenylacetic Acid

American-British Chemical Supplies, Inc., New York, selling agent for Kay-Fries Chemicals, Inc., West Haverstraw, N. Y., has announced that Kay-Fries is now producing a new flake form of phenylacetic acid in commercial quantities.

The new form, which resulted from research to develop a dense uniform easily handled physical form without sacrificing chemical purity or color, is said to be of particular interest to the penicillin and general pharmaceutical trade. The product has a minimum assay of 99 percent, and is said to compare favorably in all its chemical properties with the light fluffy crystalline material.

Bjorksten Engages Woroch, Henning

Bjorksten Research Laboratories, Madison, Wis., has added Dr. Eugene L. Woroch and James E. Henning to its staff as section leader and research chemist, respectively. Dr. Woroch was formerly associated with the Wisconsin Alumni Research Foundation, and Mr. Henning was previously with the Kester Solder Company.

Mo. Chemical Group Plans Apr. 6 Meeting

The Associated Drug and Chemical Industries of Missouri will hear Ellis D. Verink, jr., of the Aluminum Company of America, at its luncheon meeting at Sheraton hotel, St. Louis, on April 6. The subject of Mr. Verink's discussion will be the "Use of Aluminum Processing Equipment in Chemical and Pharmaceutical Manufacturing." Mr. Verink, who has been associated with the Aluminum Company of America since February, 1946, is head of the chemical section of the development division.

Pricing Ban Moratorium Bill Hearings Scheduled

The subcommittee of the senate judiciary committee will hold public hearings on March 30 on the Myers bill (S. 1008) providing for a two-year moratorium on antitrust prosecutions of individual, good faith delivered price systems and freight absorption practices. Members of the subcommittee are Senators Pat McCarran, of Nevada, chairman of the judiciary committee; Herbert R. O'Connor, of Maryland, and Alexander Wiley, of Wisconsin.

Thompson-Hayward Honored

Thompson-Hayward Chemical Company, St. Louis, was among the 124 business firms in that city honored for support of the Community Chest fund drive. On behalf of company employees, Morton Meyer, vice-president, accepted the "Community Chest Award for Outstanding Citizenship" at a dinner held on March 23. The award signified that 85 percent of employees on an hourly basis contributed a full day's pay.

Schering Award Subject Told

The Schering Corporation, pharmaceutical manufacturer, Bloomfield, N. J., has announced "The Metabolic Effects of the Steroid Hormones" as the subject for the 1949 Schering Award. The award is open to students in the medical schools of the United States and Canada.

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Obituaries

—Continued from page 4

advanced through bookeeper to superintendent by 1902. In 1904 he was appointed a salesman, and in 1911 was elected a director and vice-president, which position he held until his retirement in 1932.

William Richter

William Richter, former general manager of the fabrics and finishes department of E. I. du Pont de Nemours & Co., died March 20 at his home in Philadelphia. He was sixty-two years old.

Mr. Richter, who retired in 1944, was head of the fabrics and finishes department for seventeen years and had been a member of the company's board of directors for eighteen years. He started his career in 1905 with Harrison Brothers & Co., heavy chemical and paint manufacturer, Philadelphia, and was secretary-treasurer of that company when it was acquired by du Pont in 1917.

William Richter

After a year as comptroller of the du Pont Engineering Company, Wilmington, he was successively, from 1918 to 1924, cost analyst, service manager, control manager and division manager in several operating divisions and departments. He was associated in the early days with the du Pont dyestuffs development. In 1925, he was appointed assistant general manager of what later became the fabrics and finishes department. Two years later he was made general manager.

John Markell

John Markell, retired manager of the New York office of the explosives department of E. I. du Pont de Nemours & Co., Wilmington, Del., died in St. Petersburg, Fla., on March 22. He was sixty-one years old.

Mr. Markell, who started with du Pont in 1905 as a clerk, retired last December. He was general manager of Compania Sud Americana de Explosivos, du Pont affiliate in Chile, from 1930 to 1935 and was given the New York post upon his return.

Abel P. Wetherill

Abel P. Wetherill, former president of Wetherill & Brother, Inc., white lead manufacturer, Philadelphia, died March 23 at his home in Ardmore, Pa. He was seventy-two years old. Mr. Wetherill had joined the family firm as a laborer in 1897 and had worked up through foreman, assistant superintendent and vice-president to president.

J. Robert Ferrell, salesman for Seeley & Co. (Canada) Ltd., Toronto, died recently at his home in that city. He was fifty-eight years old. Mr. Ferrell had been associated with the company for seven years.

Miss Laura J. Fisher, operator of a toiletries manufacturing business in Olean, N. Y., died recently. She was eighty-five years old.

Rudy Green, president of the Everseal Manufacturing Company, paint manufacturer, New York, died March 22 at his home in that city. He was fifty-five years old.

Dr. A. Reclaire, for twenty years manager of the Hilversum, Holland, plant of the parent concern of Polak & Schwarz, Inc., flavoring extracts and aromatic chemicals, New York, died recently in Holland. He was fifty-eight years old. Dr. Reclaire, who joined the firm in 1919, retired in 1944.

Herbert H. Harris, president of Parfums Charbert, Inc., New York, died March 21 in New York hospital. He was fifty-two years old. Mr. Harris was one of the founders of the perfume company and was a director of the Toilet Goods Association.

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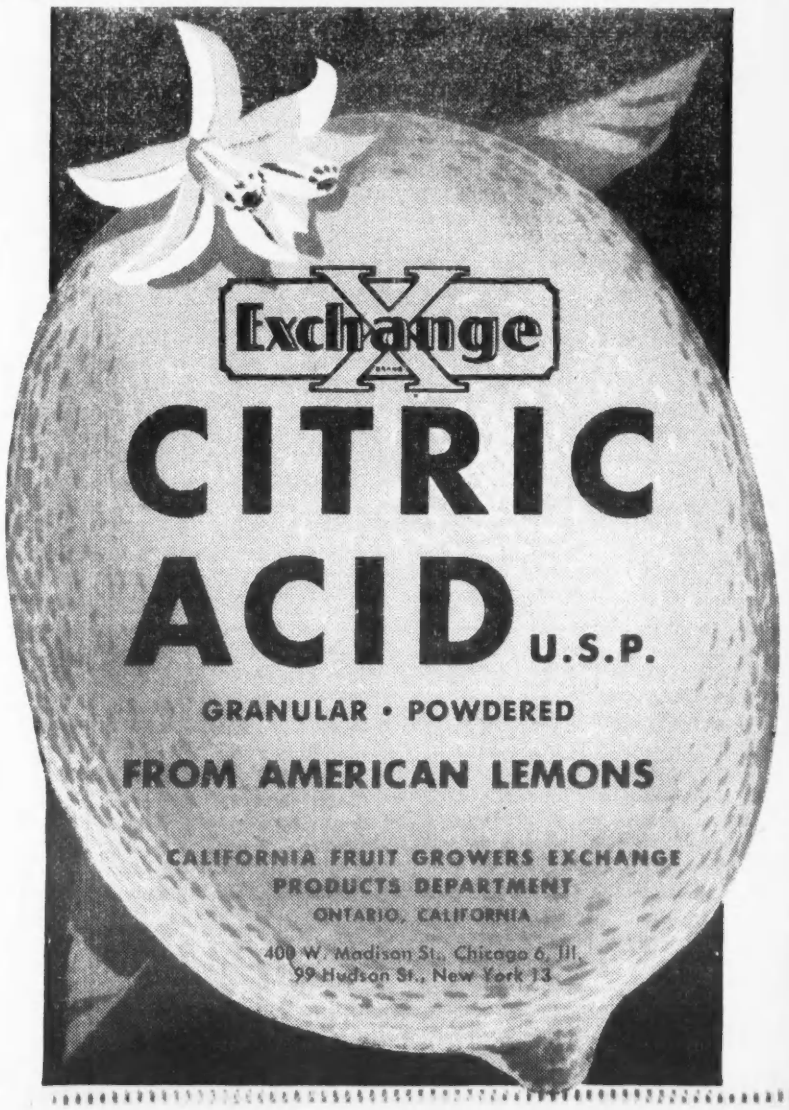

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CHEMURGIC DIVISION

Bids Wanted

Acetone, 12,850 gallons, Navy Purchasing Office (New York 3) invitation 4441, part 1, April 19.

Alcohol, denatured, 10,000 gallons, pure, 12,000 gallons, Navy Purchasing Office (New York 3) invitation 4441, part 2, April 19.

Aluminum sulphate, 440,000 lbs., Navy Purchasing Office (New York 3) invitation 4441, part 3, April 19.

Ammonia, anhydrous, 1,100,000 lbs., Navy Purchasing Office (New York 3) invitation 4438, April 15.

Anti-stripping additive, 23,200 lbs., Army Engineers Corps (New York 5) invitation 248, March 29.

Blue lead, in oil, 2,000 lbs. Army Engineers Corps (Louisville 1, Ky.) invitation 121, April 1.

Calcium chloride, 6,000 lbs. Purchasing Officer, Panama Canal (Washington 25) schedule 9242, March 29.

Carbon disulphide, 1,200 gallons. Purchasing Officer, Panama Canal (Washington 25) schedule 9242, March 29.

Calcium hypochlorite, 284,500 lbs., Navy Purchasing Office (New York 3) invitation 4440, April 15.

Carbon 14 compounds, Department of Agriculture (Washington 25) invitation 1254-49, March 31.

Carbon tetrachloride, 10,000 gallons, Army Engineers Corps (Chicago 6) invitation 844, April 1; 60,200 gallons, Navy Purchasing Office (New York 3) invitation 4439, April 15.

Cement, adhesive, 1,000 gallons, Navy Department (Aviation Supply Office, Philadelphia 11) invitation 5740, April 11; rubber, synthetic & reclaimed, 3,000 gallons, invitation 5673, April 8; rubber, synthetic, liquid polymer, 5,300 gallons, invitation 5812, March 30.

Chlorine, 240,000 lbs., Army Corps of Engineers (District Office, Washington 25) invitation 140, April 1.

Corrosion preventive film, 54,475 gallons, Navy Department (Aviation Supply Office, Philadelphia 11) invitation 5724, April 8.

Cupric sulphate, 13,000 lbs., Navy Purchasing Office (New York 3) invitation 4441, part 3, April 19.

Deodorant, blocks, 4,688 lbs., Quartermaster of the Marine Corps (Navy Building, Washington 25) invitation 826, April 8.

Dope, pyroxylin, 19,325 gallons, U. S. Air Force (Wright-Patterson Base, Dayton, Ohio) invitation 0.38-1.233, April 1.

Ferric ammonium oxalate, 7,000 lbs., Navy Purchasing Office (New York 3) invitation 4448, April 14.

Fertilizer, 100 tons, Federal Reformatory (Petersburg, Va.) invitation 9-4482, March 31.

Fire extinguisher charges, 8,500 charges, Navy Purchasing Office (New York 3) invitation 4441, part 4, April 19.

Formaldehyde solution, 2,133 lbs., Armed Services Medical Procurement Agency (Brooklyn 1) invitation 1135, April 4.

Fuel oil, 235,035 gallons, State of New York, Division of Standards & Purchase (Albany 1) invitation 3032, April 1; large quantities, invitation 3033, April 4; invitation 3034, April 5; City of Cleveland, ordinance No. 554-49, March 31; burner, approx. 32,000 gallons, Army Ordnance Department (Charlestown, Ind.) invitation 22, April 1; 13,000 gallons, invitation 23, March 29; as required, from July 1, 1949, through June 30, 1950, Bureau of Federal Supply (Washington 25) invitation 9-FO-9644-E, April 8.

Grease, lubricating, 57,170 lbs., Navy Department (Aviation Supply Office, Philadelphia 11) invitation 5689, April 8; instrument, 2,520 lbs., Army Ordnance Department (Raritan Arsenal, Metuchen, N. J.) invitation 474, April 11; 5,040 lbs., invitation 475, April 11.

Hydraulic fluid, brake, 300 gallons, Department of Agriculture (Washington 25) invitation 1404-49, March 31.

Hydraulic oil, gear, approx. 430,570 gallons, Navy Purchasing Office (New York 3) invitation 4391, April 5.

Ink, litho, 4,000 lbs., Army Map Service (Washington 16) invitation 48, April 19.

Insecticide, spray, 60,000 gallons, Quartermaster Purchasing Office (New York 3) invitation 1070, April 4.

Insulating compound, ignition, 11,000 gallons, Army Ordnance Department (Raritan Arsenal, Metuchen, N. J.) invitation 472, April 11.

Lacquer, 1,120 gallons, Army Ordnance Depot (Belle Mead, N. J.) invitation ORD-28-009-40-10, April 1; 11,000 gallons, Army Ordnance Department (Raritan Arsenal, Metuchen, N. J.) invitation 469, April 8; 1,500 gallons, invitation 484, April 13; 830 gallons, Navy Department (Aviation Supply Office, Philadelphia 11) invitation 5715, April 11.

Linseed oil, boiled, 150 gallons, raw, 150 gallons, Army Engineers Corps (Louisville 1, Ky.) invitation 473, April 11.

Luting compound, 7,500 lbs., Army Ordnance Department (Raritan Arsenal, Metuchen, N. J.) invitation 473, April 11.

Methylethylketone, 7,500 gallons, Army Ordnance Department (Raritan Arsenal, Metuchen, N. J.) invitation 467, April 13.

Milkpowder, 120,000 lbs., Quartermaster Purchasing Office (Chicago 9) invitation 1008, March 29.

Monoethylaniline, 5,525 lbs., Navy Department (Aviation Supply Office, Philadelphia 11) invitation 5714, April 5.

Oleomargarine, 180,386 lbs., State of New York Division of Standards & Purchase (Albany 1) invitation 3129, April 16.

Paint, enamel, 600 gallons, Army Engineers Corps (Belle Mead, N. J.) invitation Eng. 11, April 4; 2,515 gallons, Army Engineers Corps (Louisville 1, Ky.) invitation 121, April 1; **various,** 675 gallons, U. S. Air Force (Waco AFB, Texas) invitation 37, March 30; 1,350 gallons, U. S. Air Force (Wright-Patterson Base, Dayton, Ohio) invitation 83, April 7; 455 gallons U. S. Air Force (Spokane Base, Bong, Wash.) invitation 19, April 12, 8,862 gallons, Army Engineers Corps (Louisville 1, Ky.) invitation 121, April 1; 900 gallons, Navy Department (Aviation Supply Office, Philadelphia 11) invitation 5657, April 7; 1,080 gallons, invitation 5682, April 15; 500 gallons, Army Ordnance Department (Raritan Arsenal, Metuchen, N. J.) invitation 464, April 8; 1,466 gallons, Bureau of Federal Supply (East Point, Ga.) invitation 06-8372, March 31.

Paint remover, 1,872 gallons, U. S. Air Force (Wright-Patterson Base, Dayton, Ohio) invitation 0.38-1426, April 5; 200 gallons, Army Engineers Corps (Louisville 1, Ky.) invitation 121, April 1.

Petrolatium, white, 7,500 lbs., Armed Services Medical Procurement Agency (Brooklyn 1) invitation 1128, April 4.

Preservative engine oil, 12,500 gallons, Army Ordnance Department (Raritan Arsenal, Metuchen, N. J.) invitation 485, April 12.

Putty, 2,150 lbs., Bureau of Federal Supply (East Point, Ga.) invitation 06-8372, March 31.

Sealant, fuel tank, 1,260 gallons, U. S. Air Force (Wright-Patterson Base, Dayton, Ohio) invitation 0.38-1425, April 5.

Soap, mechanics hand, 100,000 lbs., Quartermaster Purchasing Office (New York 3) invitation 1104, April 7; laundry chip, 51,150 lbs.; hand grit, 2,199¾ lbs.; laundry, 20,400 lbs.; cleaning paste, 7,000 lbs; powder, 1,488 lbs.; milled toilet, 4,950 lbs., Bureau of Federal Supply (Washington 25) invitation 3-D-7383B-R, April 1.

Thinner, cellulose acetate butyrate dope, 400 gallons; pyroxylon dope and lacquer, 273,779 gallons, U. S. Air Force (Wright-Patterson Base, Dayton, Ohio) invitation 0.38-1396, April 1; clear lacquer, 10,000 gallons, Army Ordnance Department (Raritan Arsenal, Metuchen, N. J.) invitation 482, April 12; 20,500 gallons, invitation 481, April 12.

Turpentine, 4,000 gallons, Purchasing Officer, Panama Canal (Washington 25) schedule 9242, March 29.

Varnish, shellac, 1,002 gallons, Army Ordnance Department (Raritan Arsenal, Metuchen, N. J.) invitation 485, April 13; moisture and fungus resistant, 1,002 gallons, invitation 463, April 8; cabinet rubbing, 1,000 gallons, Purchasing Officer, Panama Canal (Washington 25) schedule 9242, March 29.

Squibb Appoints Towers Retail Distribution Head

E. R. Squibb & Sons, drug manufacturer, New York, has organized a retail distribution department and has named Harry J. Towers as its manager. Mr. Towers' department will devote itself to the administration of retail trade policies, sales terms, franchises and agreements with retail distributors and hospitals. He has been associated with the Squibb organization since 1943.

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Colgate Reports Earnings

Colgate-Palmolive-Peet Company, Jersey City, N. J., reported to stockholders last Friday that earnings for 1948 were $7,557,450, or $3.56 per share of common stock, which, together with a reduction of $4,250,000 in the reserve for industry price decline, made a total of $11,807,450, or $5.69 per share transferred to earned surplus. In 1947, reported earnings were $22,764,494, or $11.17 per share, which was reduced to $19,014,494 or $9.30 per share by an addition of $3,750,000 to the inventory reserve.

The reduction in the reserve for inventories was made because of the lower price of fats and oils at the end of 1948, E. H. Little, president, stated in his annual report. All inventory losses resulting from the market decline in fats and oils were charged against 1948 income. The inventory reserve after the reduction amounts to $3,000,000, which Mr. Little said was considered adequate.

Lion Oil Income Up

Net income of the Lion Oil Company, El Dorado, Ark., in 1948 climbed to $11,722,432, equal to $10.02 per share, compared with 7,991,287, or $6.83 a share in 1947, it was revealed in the annual report March 22. The report stated the chemical division has assumed an important position in the company, with current sales of chemical products being about 22 percent of gross revenue. This would indicate the division did a business of about $15,000,000 in 1948.

Phillips Earns $12 a Share

Net income of the Phillips Petroleum Company and subsidiaries in 1948 totaled $72,630,997, equal to $12.01 per share, compared with $40,893,697, or $8.11 a share in 1947, according to the thirty-first annual report. It stated also that Port Adams, near Houston, Tex., will be the scene of future chemical activities of the firm.

Monsanto Elects Curtis

—*Continued from page 5*

Dr. Charles Allen Thomas, Monsanto's executive vice-president, described several products introduced by the company in 1948 and explained the closer relationship between sales and research which will be achieved by several administrative changes during the year. He also emphasized that American chemists and physcists will encounter "stiffer competition in 1949 and 1950" from research experts in England, France, Germany and other European countries.

Abbott Set Record in 1948

Net sales of Abbott Laboratories, Chicago, were the highest in the company's history in 1948 and resulted in earnings of $11,120,983, equal to $5.95 a share, the company reported on March 22. This was an increase of 8.9 percent over 1947 earnings of $10,216,165, or $5.46 a share.

Socony-Vacuum Shows Profit

A net income of $132,800,000 for 1948 was announced March 23 by B. B. Jennings, president, and G. V. Holton, chairman of the board, in the annual report to stockholders of the Socony-Vacuum Oil Company. This is equivalent to $4.18 a share and compares with $97,700,000 earnings or $3.13 a share in 1947.

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AGAR—100 cs, S B Penick & Co, Flying Arrow, Fusan

AMYRIS OIL—15 dms, Norda Essential Oil & Chemical Co, Notos, Port au Prince

ANILIN COLORS—24 bbls, Geigy & Co, Westerdam, Rotterdam
12 cyls, Sandoz Chemical Works, President Jefferson, Genoa

ANISE—100 bls, Karl H Landes, Inc, Mankate Victory, Hongkong
84 bls, Allsire Woodward & Co, Mankate Victory, Hongkong

ANTIMONY ORE—1,907 bgs, Philipp Bros Co, Santa Luisa, Antofagasta
768 bgs, Charles Tennant & Sons Co, Santa Luisa, Antofagasta

ARABIC GUM—1 bg, W Bernstein Co, Examiner, Massawa
250 bgs, T M Duche & Sons Co, Examiner, Port Sudan
600 bgs, National City Bank, Examiner, Port Sudan
250 bgs, Thurston & Braidich Co, Examiner, Port Sudan
135 bgs, Parke, Davis & Co, Examiner, Port Sudan

ASBESTOS FIBER—9,400 bgs, Union Asbestos & Rubber Co, African Rainbow, Lourenco Marques
100 bgs, Union Asbestos & Rubber Co, Robin Gray, Lourenco Marques
9,305 bgs, Irving Trust Co, Tamina, Libau

ASCORBIC ACID—5 cs, Blommersdijk, Antwerp

BABASSU OIL—443,131 lbs, E F Drew & Co, Mormacreed, Sao Luiz

BALSAM—60 cs, Magnus, Mabee & Reynard, Inc, Dunstan, Manaos

BARIUM NITRATE—1,658 cs, Continental Bank & Trust Co, Kaipaki, Melbourne

BEESWAX—23 seroons, Porcella Vicini Co, Agwicomet, Puerto Plata
20 bgs, Geck Trading Co, Agwicomet, Trujillo City
21 bgs, Curacao Trading Co, Agwicomet, Trujillo City
20 bgs, Will & Baumer Candle Co, Notos, Port au Prince
9 bgs, Smith & Nichols Co, Cape Cod, Cristobal
25 bgs, Schutte & Focke Co, Borinquen, Trujillo City
30 bgs, Geck Trading Co, Borinquen, Trujillo City
41 coils, W Bernstein Co, Examiner, Massawa
125 bgs, Wessel, Kulenkampf, Copiapo, Santiago
23 bgs, D Steengrafe Co, Copiapo, Santiago
22 bgs, M Rothschild Co, Copiapo, Santiago
25 bgs, Will & Baumer Candle Co, Copiapo, Santiago
28 bgs, E Vadino Ruiz, Copiapo, Santiago

BENZOIN GUM—20 cs, Norda Essential Oil & Chemical Co, Steel Maker, Bangkok

BISMUTH—95 bxs, Cerro de Pasco Copper Corp, Santa Luisa, Callao

BONES—104,824 lbs, Geck Trading Co, Seatrain New Jersey, Havana
265 bgs, Tupman, Thurlow Co, Pioneer Glen, Brisbane
331 bgs, International Packers Commercial Co, Cape San Martin, Santos
704 bgs, Bank of New South Wales, Kaipaki, Brisbane

CARAWAY SEED—100 bgs, Catz American Co, Westerdam, Rotterdam

AMMONIUM CARBONATE—20 cs, Hudson Shipping Co, American Packer, Liverpool

CARNAUBA WAX—112 bgs, J W Hanson Co, Stockholm, Bahia
56 bgs, W R Grace & Co, Stockholm, Bahia
56 bgs, Strahl & Pitsch, Inc, Stockholm, Bahia
112 bgs, Wessel, Duval & Co, Stockholm, Bahia
125 bgs, Aqua Shipping Co, Mormacreed, Parnahaiba
63 bgs, W R Grace & Co, Mormacreed, Parnahaiba
439 bgs, Fred Henjes Co, Mormacreed, Parnahaiba
63 bgs, Frank B Ross Co, Mormacreed, Parnahaiba
731 bgs, S C Johnson Co, Mormacreed, Parnahaiba
501 bgs, Wax & Rosin Products Corp, Mormacreed, Parnahaiba
40 bgs, Wessel, Duval & Co, Mormacreed, Fortaleza
56 bgs, Innis, Speiden & Co, Mormacreed, Fortaleza
122 bgs, Cornelius Products Corp, Mormacreed, Fortaleza
56 bgs, Frank B Ross Co, Mormacreed, Fortaleza
224 bgs, W R Grace & Co, Mormacreed, Fortaleza
156 bgs, J Henry Schroder Co, Mormacreed, Fortaleza
145 bgs, Bank of London & South America, Mormacreed, Fortaleza
112 bgs, J W Hanson Co, Fredrika, Bahia
56 bgs, W R Grace & Co, Fredrika, Bahia
56 bgs, Strahl & Pitsch, Inc, Fredrika, Bahia
112 bgs, Wessel, Duval & Co, Fredrika, Bahia
63 bgs, Frank B Ross Co, Dunstan, Parnahyba
336 bgs, Frank B Ross Co, Dunstan, Fortaleza
112 bgs, Strahl & Pitsch, Inc, Dunstan, Fortaleza
33 bgs, Natural Products Corp, Dunstan, Fortaleza
66 bgs, Stein, Hall & Co, Dunstan, Fortaleza
55 bgs, Chase National Bank, Dunstan, Fortaleza
111 bgs, Stein, Hall & Co, Dunstan, Fortaleza
235 bgs, Cornelius Products Corp, Dunstan, Fortaleza
132 bgs, Wessel, Duval & Co, Dunstan, Fortaleza
55 bgs, Wm Diehl Co, Dunstan, Fortaleza
330 bgs, W R Grace & Co, Dunstan, Fortaleza
412 bgs, S C Johnson Co, Dunstan, Camocin

CASSIA—50 bls, R J Spitz Co, Mankate Victory, Hongkong
100 bls, K H Landes & Co, Mankate Victory, Hongkong
154 bls, Arthur G Dunn Co, Mankate Victory, Hongkong
17 bgs, K H Landes & Co, Mankate Victory, Hongkong

OIL—12 dms, Dodge & Olcott, Inc, Mankate Victory, Hongkong

CASTORBEANS—1,700 bgs, Baker Castor Oil Co, Stockholm, Bahia
377 bgs, Spencer Kellogg & Sons, Inc, Notos, Port au Prince
846 bgs, Baker Castor Oil Co, Mormacreed, Cabedello
3,367 bgs, Spencer Kellogg & Sons, Mormacreed, Maceio
25,401 bgs, Spencer Kellogg & Sons, Inc, Granadero, Recife
3,367 bgs, Sherwin Williams Co, Granadero, Recife
5,950 bgs, Baker Castor Oil Co, Loide Venezuela, Santos
2,550 bgs, Loide Venezuela, Bahia
1,694 bgs, Balfour, Guthrie & Co, Cape San Martin, Santos
847 bgs, Baker Castor Oil Co, Cape San Martin, Santos
1,700 bgs, Baker Castor Oil Co, Fredrika, Bahia
4,930 bgs, Baker Castor Oil Co, Mormacrio, Santos
3,400 bgs, Baker Castor Oil Co, Mormacrio, Bahia
4,250 bgs, Sherwin Williams Co, Mormacrio, Bahia

CASTORBEANS—7,750 bgs, Spencer Kellogg & Sons, Inc, Dunstan, Fortaleza
3,158 bgs, Spencer Kellogg & Sons, Inc, Dunstan, Camocin
6,280 bgs, Baker Castor Oil Co, Dunstan, Camocin

CELERYSEED—172 bgs, Arthur G Dunn, Examiner, Bombay
112 bgs, R J Prentiss & Co, Examiner, Bombay

CHEMICALS—5 cs, Givaudan-Delawanna, Inc, President Jefferson, Genoa

CHROME ORE—2,240,670 lbs, Irving Trust Co, Robin Gray, Lourenco Marques
4,471,115 lbs, Chase National Bank, Robin Gray, Lourenco Marques

CINNAMON BARK OIL—1 cs, Ungerer & Co, Cornelius Maersk, Galle
1 cs, Dodge & Olcott, Inc, Steel Maker, Colombo
QUILLS—200 bls, Otto Gerdau Co, Examiner, Colombo
150 bls, C M Van Sillevoldt Co, President Jefferson, Colombo

CITRONELLA OIL—27 dms, Holland Colombo Trading Co, Cornelius Maersk, Colombo
23 dms, Volkart Bros, Steel Maker, Colombo
37 dms, Lo Curto & Funk Co, President Jefferson, Singapore

COD LIVERS—76 dms, Silmo Chemical Co, Fort Amherst, St Johns

CODLIVER MEAL—1,214 bgs, Ashcraft, Wilkinson Co, Idefjord, Bergen

OIL—29 dms, Danca Export & Import Co, Cape Cod, Cristobal
50 dms, Eelsingh Hughtheid Co, Idefjord, Bergen
54 dms, Arista Oil Products Corp, Idefjord, Bergen
100 dms, Peder Devold Co, Fort Amherst, St Johns
8 bbls, Silmo Chemical Co, Fort Amherst, St Johns
1,168 dms, The Upjohn Co, Godafoss, Iceland
143 dms, Godafoss, Iceland

COPAL GUM—159 bgs, O G Innes Corp, Mankate Victory, Manila
44 bgs, Gillespie-Rogers-Pyatt Co, Mankate Victory, Manila
660 bgs, O G Innes Corp, African Grove, Matadi
38 bgs, Gillespie-Rogers-Pyatt Co, British Prince, Singapore

CRESYLIC ACID—45 dms, George F Smith Co, American Packer, Liverpool

CUBEB BERRIES—127 bgs, The Meer Corp, President Jefferson, Singapore

CYANIDE PRECIPITATE—10 cs, Irvington Smelting & Refining Co, Santa Luisa, Callao
9 cs, American Metal Co, Santa Luisa, Callao

DAMMAR GUM—210 bgs, Gillespie-Rogers-Pyatt Co, British Prince, Singapore
25 cs, Commercial National Bank, British Prince, Singapore
25 cs, France, Campbell & Darling Co, British Prince, Singapore
64 bgs, O G Innes Corp, British Prince, Singapore
50 cs, O G Innes Corp, British Prince, Singapore
210 bgs, U S Industrial Chemicals, Inc, Steel Maker, Singapore
256 bgs, S Winterbourne Co, President Jefferson, Singapore
50 cs, S Winterbourne Co, President Jefferson, Singapore
70 bgs, Thurston & Braidich, President Jefferson, Singapore
25 cs, Gillespie-Rogers-Pyatt Co, President Jefferson, Singapore

DESOXYCHOLIC ACID—3 cs, Gane & Ingram, Inc, President Jefferson, Genoa

DRUGS, CRUDE—100 bgs, S B Penick & Co, Horta, Oporto

DYESTUFFS—14 cks, Sterone Corp, Blommersdijk, Antwerp
22 dms, Ciba & Co, American Chief, Havre
25 cs, Santoz Chemical Works, President Jefferson, Genoa

EPHEDRINE—29 cks, Blommersdijk, Antwerp

ERGOT—20 cs, Biddle Sawyer Corp, Horta, Oporto

ESSENTIAL OILS—23 cs, Exiria, Seville
9 bbls, Citrus & Allied Essential Oils Co, Agwicomet, Puerto Plata
1 cs, Dodge & Olcott, Inc, American Chief, Havre
2 dms, Dodge & Olcott, Inc, President Jefferson, Marseilles
1 cs, George Uhe Co, President Jefferson, Marseilles
2 dms, Antoine Chiris Co, President Jefferson, Marseilles
2 cs, Tombarel Products Corp, President Jefferson, Marseilles
3 dms, Tombarel Products Corp, President Jefferson, Marseilles
6 dms, Ungerer & Co, President Jefferson, Marseilles

EUCALYPTUS OIL—10 dms, Commercial Bank of Sydney, Pioneer Glen, Melbourne
5 dms, French American Banking Co, Cape San Martin, Santos

WOOD EXTRACT—4,563 bgs, Industrial Extracts, Ltd, Pioneer Glen, Fremantle

FERTILIZER—54 bls, Fidelity Union Trust Co, Pioneer Glen, Melbourne

FISH OIL—5 dms, B De Costa Co, African Grove, Luanda
104 dms, Arista Oil Products Corp, Idefjord, Bergen

FLEASEED—882 bgs, G J Burkhardt Co, Examiner, Bombay
44 bgs, Peek & Velsor, Inc, Examiner, Bombay
443 bgs, S B Penick & Co, Flying Arrow, Bombay

HUSKS—612 bgs, G J Burkhardt Co, Flying Arrow, Bombay
755 bgs, R J Prentiss & Co, Examiner, Bombay

FUEL OIL—101,000 bbls, Esso Export Corp, Esso Bethlehem, Aruba
104,561 bbls, Gulf Oil Corp, Chiwawa, Willemstad
65,167 bbls, Asiatic Petroleum Corp, Christopher L Sholes, Willemstad
77,479 bbls, Asiatic Petroleum Corp, Loideste, Curacao
101,900 bbls, Mexican Petroleum Corp, Esso Chattanooga, Aruba
101,000 bbls, Esso Export Corp, Esso Raleigh, Aruba
10,000 bbls, Asiatic Petroleum Corp, Santa Rosa, Curacao

GLUESTOCK—54 bls, Transatlantic Animal By-Products Corp, Granadero, Buenos Aires.

GRAPHITE—750 bgs, Asbury Graphite Mills Co, Examiner, Colombo
500 bgs, J Dixon Crucile Co, Examiner, Colombo
1,000 bgs, Asbury Graphite Mills Co, President Jefferson, Colombo

GLYCERIN—86,444 lbs, Procter & Gamble Co, Seatrain New Jersey, Havana
85,730 lbs, C J Schellings Co, Seatrain New Jersey, Havana

GYPSUM, CRUDE—9,889 tons, U S Gypsum Co, Gypsum Prince, Hautsport

HALIBUTLIVER OIL—1 dm, Arista Oil Products Co, Idefjord, Bergen

IRISH MOSS—1,500 bls, Premier Peat Moss Co, American Packer, Dublin
75 bls, T M Duche & Sons Co, American Chief, Havre

KARAYA GUM—666 bgs, Virchand Panachand Co, Examiner, Massawa
198 bgs, S B Penick & Co, Flying Arrow, Bombay
390 bgs, Gold Medal Haarlem Oil Co, Flying Arrow, Bombay

KARAYA GUM—123 bgs, Innis, Speiden & Co, Flying Arrow, Bombay
124 bgs, Dodwell & Co, Flying Arrow, Bombay
307 bgs, W M Allison & Co, Flying Arrow, Bombay
265 bgs, Jacques Wolf Co, Flying Arrow, Bombay
132 bgs, J B Gruman Co, Flying Arrow, Bombay
135 bgs, Stem, Hall & Co, Flying Arrow, Bombay

KURILAC—200 bgs, The Mac Lac Co, Steel Surveyor, Calcutta
300 bgs, Milton Snedeker Co, Examiner, Calcutta

LEMONGRASS OIL—3 dms, Dodge & Olcott, Inc, Notos, Port au Prince
2 dms, Dodge & Olcott, Inc, Cape Cod, Cristobal
27 dms, Norda Essential Oil & Chemical Co, Cornelius Maersk, Cochin
6 dms, Volkart Bros, Sygna, Santos

LIME JUICE—20 cks, W J Bush Co, Byfjord, Roseau
25 cks, State Products Corp, Byfjord, Roseau

LIQUIDAMBAR—4 dms, New York Honduras Commission Agency, Cape Cod, Cristobal

LOCUST BEAN GUM—320 bgs ,Stein, Hall & Co, Horta, Lisbon
200 bgs, T M Duche & Sons Co, President Jefferson, Genoa
20 bgs, J Henry Schroder Co, President Jefferson, Genoa
50 bgs, Brown Bros Harriman Co, President Jefferson, Genoa

LYCOPODIUM — 129 bls, Amtorg Trading Co, Hamina, Libau

MACE—17 cs, Otto Gerdau Co, Steel Flyer, Macassar

MEDICINAL HERBS—16 cs, Peek & Velsor, Inc, Flying Enterprise, Antwerp
10 bgs, S B Penick & Co, Blommersdijk, Antwerp
3 bls, Abraham Salen De Conehough, Borinquen, Trujillo City
43 bls, S B Penick & Co, President Jefferson, Leghorn

MENTHOL—150 cs, Volkart Bros, Sygna, Santos
25 cs, Magnus, Mabee & Reynard, Inc, Mormaccio, Santos

MICA—20 cs, S Cussel Co, Granadero, Buenos Aires
69 cs, Frazar & Co, African Glen, Luanda
54 cs, Cosmopolitan Trading Co, Royal Prince, Rio de Janeiro
100 cs, Cornelius & Suhr Co, Examiner, Madras
219 cs, Asheville Schoonmaker Mica Co, Examiner, Calcutta
221 cs, Cornelius & Suhr Co, Examiner, Calcutta
70 cs, Otto Gerdau Co, Examiner, Calcutta
449 bgs, United States Mica Co, Examiner, Calcutta
267 cs, New England Mica Co, Examiner, Calcutta
393 cs, Asheville Schoonmaker Mica Co, Steel Surveyor, Calcutta

MYROBALANS—4,443 bgs, Hammond & Carpenter Co, Examiner, Bombay
2,667 bgs, Barkey Import Co, Examiner, Bombay

NAPHTHALENE—120 bgs, M J Corbett & Co, American Packer, Manchester
487 bgs, American Cyanamid Co, Flying Enterprise, Antwerp

NIAOULI OIL—13 cs, E Hillier's Son Corp, Mormacrio, Montevideo

NISPERO GUM—55 cs, L A Dreyfus Co, Cape Cod, Cristobal

OCOTEA CYMBARUM OIL—45 dms, Dodge & Olcott, Inc, Mormacreed, Itajahy
54 dms, French American Banking Co, Mormacreed, Itajahy

OIL—31 dms, Vitaron Chemical Mfg Co, Idefjord, Bergen

OPTICICA OIL—353 tons, Guaranty Trust Co, Mormacreed, Fortaleza

OLIBANUM GUM—100 cs, Reuben Import & Export Co, Examiner, Massawa
134 bgs, S B Penick & Co, Examiner, Bombay

OLIVE OIL—25 dms, Irving Trust Co, Exiria, Seville
35 dms, Pan American Trust Co, Exiria, Seville

OURICURY WAX—112 bgs, Wessel, Duval & Co, Mormacrio, Bahia

PALM OIL—1,663 tons, Balfour, Guthrie & Co, African Grove, Matadi

PAPAIN—20 cs, S B Penick & Co, Cornelius Maersk, Colombo
16 chests, S B Penick & Co, British Prince, Colombo
28 chests, S B Penick & Co, President Jefferson, Colombo

PAPRIKA—25 cs, United Fruit Co, Examiner, Alicante
10 cs, Wells Fargo Express Co, Examiner, Alicante
75 cs, American President Line, Examiner, Alicante
50 cs, Kauri Import Co, Examiner, Alicante
100 cs, J Navarro Co, Examiner, Alicante
495 cs, J Weinstein Co, Examiner, Alicante
550 cs, Examiner, Alicante
50 cs, R F Downing Co, Examiner, Alicante
300 cs, Armour Co, Examiner, Alicante
17 cs, M A Porazzi Co, Examiner, Alicante
100 cs, P A Petry Co, Examiner, Alicante
100 cs, A A Saya Co, Examiner, Alicante

PATCHOULI LEAVES—10 bls, Aromatic Products Corp, President Jefferson, Singapore

OIL—3 cs, East Asiatic Co, President Jefferson, Penang

PEPPER, BLACK—400 bgs, Manufacturers Trust Co, Cornelius Maersk, Alleppey
80 bgs, Internatio Rotterdam, Cornelius Maersk, Alleppey
160 bgs, Virchand Panachand Co, Cornelius Maersk, Alleppey
240 bgs, Moller Trading Co, Cornelius Maersk, Cochin
480 bgs, Mincing Trading Co, Cornelius Maersk, Cochin
400 bgs, Interport Commercial Co, Examiner, Bombay
308 bgs, Arthur G Dunn Co, Examiner, Bombay
80 bgs, Griffith Laboratories Co, Examiner, Bombay
480 bgs, Mincing Trading Co, Examiner, Cochin
160 bgs, Balex Corp, Flying Arrow, Bombay
320 bgs, Arthur G Dunn Co, Flying Arrow, Bombay

WHITE—30 bgs, Westerdam, Rotterdam
70 bgs, M Golodetz Co, Westerdam, Rotterdam
70 bgs, H Marmorek Co, Westerdam, Rotterdam

PERFUMERY—1 cs, Christian Dior, Rouen, Le Havre
4 cs, Morales Fernandez, Rouen, Le Havre
1 cs, United Fruit Co, Rouen, Le Havre
4 cs, Rohner Gehrig Co, Rouen, Le Havre
1 dm, Alltransport, Inc, Vinkt, Antwerp
1 dm, J E Bernard, American Chief, Havre
1 cs, Rohner, Gehrig Co, American Chief, Havre
8 cs, Parfumes Corday Co, American Chief, Havre
14 cs, Guerlain, Inc, American Chief, Havre
15 cs, Lee Mortimer Co, American Chief, Havre
1 cs, Roure Dupont Co, American Chief, Havre

PERU BALSAM—21 dms, Magnus, Mabee & Reynard, Inc, Cape Cod, Cristobal

PETROLEUM, CRUDE—123,296 bbls, California Refining Co, Fort Mims, Puerto La Cruz
124,759 bbls, Imperial Oil, Ltd, Salem Maritime, Puerto La Cruz
123,318 bbls, Socony-Vacum Oil Co, Battle Rock, Guanta
128,375 bbls, Esso Standard Oil Co, Jeanny, Puerto La Cruz
121,101 bbls, Socony-Vacum Oil Co, Shabonee, Puerto La Cruz

POPPYSEED—200 bgs, Catz American Co, Westerdam, Rotterdam

POTASSIUM PERCHLORATE—28 bbls, Chilean Nitrate Sales Co, Santa Luisa, Antofagasta

PYRITES—6,159 tons, The Pyrites Co, Motomar, Huelva

QUEBRACHO EXTRACT—1,000 bgs, International Products Corp, Granadero, Buenos Aires
2,555 bgs, Imex Corp, Granadero, Buenos Aires
1,900 bgs, International Products Corp, Royal Prince, Buenos Aires

ROSEMARY LEAVES—130 bgs, Villar & Osorio Co, Examiner, Alicante

RUTILE SAND—4,068 bgs, Metal Traders, Inc, Kaipaki, Brisbane

SAGE OIL—2 dms, Dodge & Olcott Inc, Examiner, Alicante

SANDALWOOD—100 bgs, George Lueders & Co, Flying Arrow, Bombay

SESAME SEED—500 bgs, W G Scarlett Co, Cape Cod, Cristobal
667 bgs, Chase National Bank, Cape Cod, Cristobal
667 bgs, A Sahadi & Co, Cape Cod, Cristobal
134 bgs, Corn Exchange Bank, Cape Cod, Cristobal

SCHEELITE ORE—3,967 bgs, Wah Chang Trading Co, Flying Arrow, Fusan

SEEDLAC—200 bgs, P N Rowe Co, Examiner, Calcutta
300 bgs, William Zinsser & Co, Examiner, Calcutta
200 bgs, Hauser Shellac Co, Examiner, Calcutta
650 bgs, Mantrose Corp, Examiner, Calcutta
1,101 bgs, Otto Gerdau Co, Steel Maker, Bangkok
191 bgs, J Henry Schroder Co, Steel Maker, Bangkok
134 bgs, Schwab Bros, Steel Maker, Bangkok
384 bgs, The Mac Lac Co, Steel Maker, Bangkok
300 bgs, Mantrose Corp, Steel Sturveyor, Calcutta
950 bgs, The Mac Lac Co, Steel Surveyor, Calcutta

SHARKLIVER OIL—23 dms, Danca Export & Import Co, Jutlandia, Copenhagen
50 dms, Peder Devold Co, Godafoss, Iceland
1 dm, Gelatine Products, Inc, Idefjord, Bergen

SHELLAC—680 bgs, Superintendence Co, Vinkt, Antwerp
25 bgs, F H Paul & Stien Bros, American Chief, Hamburg
100 bgs, Bradshaw-Praeger Co, Examiner, Calcutta
200 bgs, William Zinsser & Co, Examiner, Calcutta
50 bgs, P N Rowe Co, Examiner, Calcutta
250 bgs, Schwab Bros, Examiner, Calcutta
400 bgs, Steel Maker, Bangkok
250 bgs, Mantrose Corp, Steel Surveyor, Calcutta

SILVER SULPHIDE—243 bgs, South American Mineral & Merchandise Co, Santa Luisa, Antofagasta

TALC—500 bgs, C Mathieu Co, President Jefferson, Genoa

TANKAGE—520 bgs, International Packers Commercial Co, Mormacrio, Montevideo

TEA WASTE—1,400 bgs, Maywood Chemical Co, President Jefferson, Colombo

TIN ORE—2,000 bgs, W R Grace & Co, Santa Luisa, Mollendo

TONKA BEANS—29 bbls, Machado & Co, Mormacreed, Belem Para
8 bbls, Dodge & Olcott, Inc, Mormacreed, Belem Para

TUCUM KERNELS—1,539 bgs, General Foods Corp, Mormacreed, Parnaiba
5,384 bgs, E F Drew Co, Dunstan, Parnahyba
1,538 bgs, Bank of London, Dunstan, Parnahyba

VALERIAN ROOT—40 bgs, S B Penick & Co, Blommersdyk, Antwerp

VANILLA BEANS—27 cs, M Cortizas Co, Byfjord, Roseau
17 cs, Yaras & Co, Mankate Victory, Manila

VARNISH—1 dm, Interchemical Corp, Vinkt, Antwerp

VETIVER OIL—1 dm, Lo Curto & Funk Co, Notos, Port Au Prince
5 dms, Bank of Manhattan Co, President Jefferson, Singapore
3 dms, Ungerer & Co, President Jefferson, Singapore
2 dms, Centflor Mfg Co, President Jefferson, Singapore
3 dms, George Lueders & Co, President Jefferson, Singapore

WATTLE BARK—1,523 bls, Bank of New York, African Rainbow, Mossel Bay
550 bls, River Plate Import & Export Corp, African Rainbow, Durban
4,368 bls, Hammond & Carpenter Co, African Rainbow, Durban
2,196 bls, Hammond & Carpenter, Robin Gray, Durban
EXTRACT—1,130 bgs, Guaranty Trust Co, African Rainbow, Durban

WOLFRAM ORE—1,000 bgs, J W Hampton, jr, & Co, Mankate Victory, Hongkong
300 bgs, W R Grace & Co, Santa Luisa, Mollendo
834 bgs, Wah Chang Trading Co, Flying Arrow, Fusan

WOOL GREASE—282 dms, Davies, Turner & Co, American Packer, Manchester
328 dms, American Packer, Manchester
28 dms, Robinson Wagner Co, Pioneer Glen, Brisbane

YLANG-YLANG OIL—1 dm, Van Ameringen-Haebler Co, American Chief, Havre

ZEDOARY ROOT—80 bgs, The Meer Corp, Examiner, Bombay

ZIRCON SAND—10,000 bgs, National Lead Co, Pioneer Glen, Brisbane
4,000 bgs, Kaipaki, Brisbane

Philadelphia

March 17 to March 21

CASEIN—2,000 bgs, International Casein Sales Co, Mormacisle, Buenos Aires

CHROME ORE—3,000 tons, E J Lavino & Co, Borgholt, Masinloc

COCOA EXPELLER CAKE—300 bgs, Monsanto Chemical Co, Frederika, Bahia

GLUESTOCK—145 bls, Fulton Weeks Corp, Agnete, Rio de Janeiro

GREAVE CAKES—110,236 lbs, Elbert & Co, Mormacisle, Buenos Aires

GYPSUM, CRUDE—5,333 tons, U S Gypsum Co, Gypsum King, Hautsport

ILMENITE SAND—6,000 tons, American Cyanamid Co, Jalakanta, Koilthattani

LEAD—121,385 lbs, Pacific Scrap Co, Pioneer Dale, Manila

MANGANESE ORE—5,000 tons, E J Lavino & Co, African Patriot, Takoradi

MEDICINE—1 cs, Irish Exporters & Importers, Inc, American Traveler, Dublin

PEAT—300 bgs, Wm J Jarndale Co, Kristina Thorden, Stockholm

PETROLEUM, CRUDE—107,708 bbls, Gulf Oil Corp, Gulfhawk, Garipito
112,022 bbls, Socony Vacuum Oil Co, Fullerton Hills, Kuwait
118,251 bbls, Gulf Oil Corp, Gulfglow, Puerto La Cruz
119,789 bbls, Atlantic Ref Co, Atlantic Transporter, Pamatacual
121,570 bbls, Socony Vacuum Oil Co, Samoset, Covenas
120,215 bbls, Socony Vacuum Oil Co, Satuket, Puerto La Cruz
118,936 bbls, Gulf Oil Co, Gulfmeadows, Puerto La Cruz
WHITING—800 bgs, Nicholas H Weitzner Co, Ida Bakke, Antwerp
ZINC DROSS—38,108 kilos, Brandeis Goldsmith Co, Kristina Thorden, Stockholm

San Francisco

March 18 to March 21

ALUMINUM SCRAP—228 ingots, Aluminum & Magnesium Corp, General M C Meigs, Guam
BABASSU KERNELS—13,333 bgs, Pacific Vegetable Oil Co, Silverstreak, Parnahyba
CASSIA—33 bls, S L Jones Co, Trein Maersk, Hongkong
CELLULOSE PAINT—7 cs, British Motor Car Co, English Prince, Manchester
COPRA—30 tons, Pacific Vegetable Oil Co, Trein Maersk, Davao
GLUESTOCK—7,311 bgs, T D Stevenson & Sons, Silverstreak, Parnahyba
MINERALS—643 bgs, American Smelting & Refining Co, Santa Adela, San Jose
PAPRIKA—7 bgs, Santa Adela, Valparaiso
PYROTECHNICS—125 ctns, Import Export Industries Corp, Trein Maersk, Yokohama
SESAME MEAL—1,234 bgs, Santa Adela, La Libertad
SEED—100 bgs, General Export Corp, General M C Meigs, Hongkong
SODIUM NITRATE—25,926 bgs, Guaranty Trust Co, Santa Adela, Tocopilla
TUNG OIL—23 dms, Trein Maersk, Shanghai
WATTLE EXTRACT—100 bgs, Bank of California, Silverstreak, Durban
ZINC RESIDUE—1 cs, Western Steel & Metals Corp, Trein Maersk, Yokohama

Pfizer & Co. Conducts Tour of Groton Plant

A tour by press representatives of the New London, Conn., industrial area was conducted on March 22 under the sponsorship of the Connecticut State Development Commission, Chas. Pfizer & Co., manufacturing chemists, Brooklyn, N. Y., and the New Haven Railroad.

Highlight of the day was a visit to the new Pfizer production facilities at Groton, purchased from the government in 1946. John McKeen, executive vice-president of the company, revealed that the development commission and the railroad aided Pfizer in accumulating the data which led to the selection of Groton as an expansion site.

Present facilities at Groton are able to produce citric acid, sodium and potassium citrates, oxalic acid, ammonium and potassium oxalates, crude glutonic acid and antibiotics. Plans are now underway for expansion to include large scale production of antibiotics and other fermentation products.

Lilly Advances Kipfer

Eli Lilly & Co., pharmaceutical manufacturer, Indianapolis, has appointed E. B. Kipfer director of sales in charge of central districts, and has named E. N. Beesley to succeed Mr. Kipfer as associate director of sales for the same districts.

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Kenton Heads Chemical Industry Army Day Drive

Edwin C. Kenton of the Evans Research & Development Corporation, New York, has been appointed chairman of the 1949 Army Day Committee for the chemical and allied industries. The function of the committee is to raise the chemical industry's quota of funds to support the activity, principally the customary parade, posters and similar activity. The quota for the industry is approximately $5,000.

On Saturday, April 9, a banquet and dance will be held on the Starlight Roof of the Waldorf-Astoria, ending the festivities.

Other members of the chemical and allied industries committee include: — William S. Auchincloss, Schnell Publishing Company; Donald R. Calo, Niagara Alkali Company; David Carnegie, Federal Leather Company; Walter Clark, Air Reduction Sales Company; Dr. Ralph L. Evans, Evans Chemetics, Inc.; Thomas S. Grasselli, E. I. duPont de Nemours & Co.; S. W. Jacobs, Niagara Alkali Company; Phillip J. LoBue, Phillip J. LoBue Company; Robert J. Milano, Millmaster Chemical Company; Barclay MacKinnon, N. Y. Quinine & Chemical Company; Robert Neumuller, Calco Chemical Division of American Cyanamid Company; Robert Niman, National Foundry Company of New York; Louis Plansoen, Federal Leather Company; E. M. Wilson, Pennsylvania Salt Manufacturing Company, and Harold F. Zimmerman, International Selling Corporation.

P.A.'s Eye View of Business

—*Continued from page 5*

alcohol, asphalt, autos, trucks, used cars, burlap, brass and bronze ingots, building materials, cable, canvas, casein, castings, cellulose acetate, clothing, textiles, pipe conduit and fittings, batteries, deluxe electrical appliances, food, formaldehyde, coal, coke, fuel oil, glycerin, glue, jute, leather, lumber, nails, vegetable oils, paint, pulp paper, pitch, platinum, printed matter, rosin, rubber, shipping containers, soap, stampings, starch, outside market steel, tires, turpentine, valves, copper wire.

But few items were up in price—sulphuric acid, cork products, ferromanganese, silica soda, salt.

No commodity is reported as being in critically short supply.

Employment

The trend of employment continues down in March, with a slight indication of leveling off. Fifty-one percent reported lower payrolls, compared with 59 percent reporting this condition in February. Overtime and extra shifts are fast disappearing. Many plants laying off inefficient help are able to replace them with more desirable workers. Economy drives are reported to be reducing overhead personnel. Productivity is showing some increase.

Canada

General business in Canada for March compares more nearly with business activity in the United States this month. Production is down a little; back orders are off about the same. Prices have not dropped as much, though the trend is down. Inventories the same as the United States. Employment slightly better. Buying policy "hand-to-mouth to ninety days."

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Lithium Chloride Toxicity

—*Continued from page 36*

Use of a Table Salt Substitute in the Low-Sodium Dietary Treatment of Hypertension and Congestive Heart Failure," by Alexander Minty Waldron, *University Hospital Bulletin*, University of Michigan, Ann Arbor, Michigan, Vol. 15, No. 2, February, 1949; "Lithium Poisoning from Salt Substitutes," by Dr. A. C. Corcoran, et al, *The Journal of the American Medical Association*, Vol. 139, No. 11, page 685, March 15, 1949; "Lithium Chloride as Substitute for Sodium Chloride," by Dr. Lawrence W. Hanlon, et al, *The Journal of the American Medical Association*, Vol. 139, No. 11, page 688, March 15, 1949; "Lithium Chloride Poisoning," by Robert L. Stern, M.D., *The Journal of the American Medical Association*, Vol. 139, No. 11, page 710.

On the basis of this new evidence, which shows that lithium chloride is a toxic substance, we are now advising manufacturers of carbonated beverages that, in our opinion, the addition of a lithium compound to a carbonated beverage renders it adulterated within the meaning of section 402 (a) (1) of the food, drug, and cosmetic act. Fortunately, there does not seem to be any immediate danger to health from the quantities of lithium salts which have commonly been used in carbonated beverages. A recent survey shows that when lithium citrate is added to carbonated beverages it is present in up to 30 parts per million, or roughly, up to a little more than 7 milligrams per 8-ounce portion of the beverage.

No doubt the recent evidence of toxicity from lithium compounds will result in a re-evaluation by the medical profession of the circumstances under which lithium should be used in the treatment of disease. Of course, toxic substances which have no place in food may have a definite place in medicine for use under careful supervision of a doctor. If medical consensus is that lithium compounds have value in medicine, the food, drug, and cosmetic act will not serve to proscribe their distribution as drugs. It will require adequate labeling to guard against misuse.

Washington — P. B. DUNBAR
Commissioner of Food and Drugs

Statement of Food and Drug Administration Concerning Lithium Chloride

As a result of the radio and press announcements following the Federal Security Agency's press release of February 18 on lithium chloride, there has been widespread publicity throughout the United States and in portions of Canada.

When lithium chloride was first proposed for use as a salt substitute, the Food and Drug Administration started pharmacological experiments to determine its safety and recommend that manufacturers likewise check the safety of the product before marketing it. Experiments in our laboratories recently showed that lithium chloride is toxic to animals. However, a large manufacturer of a lithium chloride-containing salt substitute reported that extensive clinical experiments sponsored by him showed lithium chloride to be safe for human beings, thus casting some doubt upon the applicability of animal experiments to humans.

Recently, untoward reactions in humans consuming "westsal," which may have been due to lithium chloride, came to our attention and recall of lithium chloride preparations was suggested to and inaugurated by manufacturers.

On Friday, February 18, the Food and Drug Administration learned of deaths attributed to lithium chloride, and public announcements of the dangers of lithium chloride were distributed immediately.

Inquiries from consumers show that salt substitutes containing lithium chloride were being used by many individuals on the advice of doctors who understood that the substitutes were harmless. At the time of the radio and newspaper publicity, these consumers in large measure had not heard of the dangers accompanying use of lithium chloride.

Consumers who have been using a lithium chloride-containing salt substitute should discontinue use immediately. If symptoms of lithium poisoning have not appeared, it is likely there will be no damage. Medical reports show that people who suffered mild symptoms of poisoning recovered when they discontinued use of lithium chloride.

In case of severe symptoms, the physician should be consulted immediately. It has been suggested that cautious intravenous administration of sodium chloride solution may be of value in treating poisoning from lithium chloride.

The symptoms of lithium chloride poisoning are drowsiness, weakness, loss of appetite, nausea, tremors of the extremities, blurring of vision, and coma.

It has come to our attention that some consumers believe some brands of ordinary table salt are causing these injuries. Lithium chloride is marketed as a liquid. The granular table salt, sodium chloride, is not under suspicion.

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Botanical Drugs, Spices, Gums

The spot and replacement developments that recently forced virtually sensational advances in the prices of gingers and peppers had lessening force last week and the rise in quotations became more conservative. Coorges and green Alleppey cardamom continued to rise and following a further advance, no weakness could be found in Madagascar clove. In medicinal botanicals, lower quotations came on jalap and Mexican sarsaparilla roots as the main development but the downward revision in USP Spanish saffron was very severe. The market index was off 0.7 point in becoming 186.8 in contrast with 231.9 prevailing a year ago following a drop of 1.6 points.

Practically every product derived from ginger root sold at advances because of the raw material situation. Also, clove spice derivatives strained toward higher price levels and clove oil succeeded in its effort. The strength behind Madagascar clove spice traced to the fact that the new crop was 700 tons to 1,200 tons below estimates, mainly because there was insufficient rice to feed the workers at harvest time; they migrated to get food.

Sluggish demand current in jalap and sarsaparilla root brought enough competition to effect a lowering of prices. Also, keen spot competition, plus a drop in Spanish export prices, set Spanish saffron down hard. An interesting angle of the medicinal botanical business was found in a report which in one quarter reported first quarter business ahead of that during the corresponding period of 1948. This gain, however, was in tonnage sold, not in the dollar value of business done. Looked at from the standpoint of dollars received, the January-March business was far under that a year ago because of the much lower prices at which botanical drugs had to be sold. This was a fresh view of an old report to the effect that business this Winter had been poor. Perhaps it has been good with other sellers in terms of quantities sold, but in the form of dollar returns for service performed, the dollar returns continued to be generally admitted to be insufficient.

Balsams

Fir—Demand was a fairly active supporting item in the price situation during the past week; sellers of both Oregon and Canadian balsam took an exceptionally steady view on the market and were not disposed to shade or entertain many bids.

Peru—The supply was ample to cover all present requirements and to afford a fair degree of protection against the future requirements of a nearby variety. Quotations seemed to be steady.

Barks

Black Haw—The lack of price movement fitted in well with the current season of the year. Most local suppliers awaited developments in the collecting areas where the need for increased activity was suggested by the fact that most collectors carryover but little material from the 1948 crop. Local quotations will likely reflect in some measure what happens to prices at the origin when collections begin to arrive.

Orange Peel—Some importers are having difficulty with replacements arriving in this area. The latest report of the Food and Drug Administration shows detention of 420 bags and some recent analyses have revealed mold as a real problem for recleaning operations.

Sassafras — Seasonal interest has increased in the middle west where the principal consumption of this botanic takes place. Top quality bark was said to be not too plentiful but fair holdings of moderately fair grades were in hand. Prices were firm.

Wild Cherry—Some quarters have fair carryovers of this bark in practically all of its forms. Interest in the market from now on shifts to the origin where new crop collections are due to begin. Consumption during last Winter was only fair.

Beans

Vanilla — Considerable stability attached to the spot position of this item. Signs pointed to the possibility of consumers entering the market for fairly good sized quantities between now and midyear; December and January business had been substantial. February operations were less so, and March has shown further contraction. Much will depend on the activity in the ice cream business during the Summer months but the essential oil trade is inclined to the view that it will not be an improvement over that in 1948, which was hardly satisfactory. Given normal requirements by the ice cream trade, sales and consumption of vanilla beans should be very good in volume.

Berries

Cubeb — Only jobbing interest was shown in the article and the market seemed rather more steady than the sales into consumption might warrant. Prices were fairly well supported in all quarters.

Juniper—Few opportunities for selling developed during the past week. Even those with distressed stocks available at far less than regular botanical dealers could possibly meet failed to attract buyers' attention to any substantial extent. Botanical dealers maintained a steady level of prices regardless of poor sales.

Flowers

Linden — Although demand was not overly active, prices were said to be fairly steady in the absence of much tendency toward price competition on the part of the holders of fair sized spot stocks of the material. Some expect to buy lower in Europe during the new season spreading ahead.

Saffron—Spanish material for shipment was relatively cheap and shippers were more than reasonably anxious for business. Local quotations were around $19 to $20 per pound and even at the much more attractive price interest on the part of consumers remained conservative in size throughout the week.

Gums

Arabic — The market remained relatively inactive save for the usual amount of jobbing requirements common to the market at all times. Quantity protection of future requirements of large consumers was a most uncommon event during the past week. Quotations lacked quotable change.

Benzoin — The market was relatively

For Late Market Developments, See Page 4

Market Trends

Prices Advanced

Drugs

None

Other Articles

Cardamom, coorges, 30c. per lb.
green, Alleppey, 35c. per lb.
Clove, Madagascar futures, 1¼c. per lb.
Ginger, African, 2½c. per lb.
Jamaica, No. 2, 1c. per lb.
No. 3, 2c. per lb.
Pepper, black, spot, 3c. per lb.
futures, nearby, 1c. per lb.
May shipment, 1c. per lb.
White, spot, 10c. per lb.
April shipment, 12c. per lb.
Sage, Dalmatian, ½c. per lb.
Turmeric root, Alleppey, 3c. per lb.

Prices Reduced

Drugs

Jalap root, whole, 5c. per lb.
powdered, 5c. per lb.
Sarsaparilla root, Mexican, 4c. per lb.
Saffron, Spanish, $3.50 per lb.

Other Articles

Anise, star, ½c. per lb.
Caraway seed, Danish, ¼c. per lb.
Dutch, ¼c. per lb.
Cassia, Batavia, longstick, 2c. per lb.
China, broken Canton rolls, ½c. per lb.
Cinnamon, Ceylon, No. 2, 1c. per lb.
Dillseed, dewhiskered, ½c. per lb.
Mace, Sinuw, No. 1, 2c. per lb.
West Indian, broken, 5c. per lb.
Marjoram, Chilean, ½c. per lb.
Poppy seed, Turkish, ½c. per lb.
Sesame seed, Chinese, hulled, 2c. per lb.

Comparative Price Indexes

(100=August 1, 1914)

Last week	Prev. week	Last month	Last year
186.8	187.5	198.4	231.9

(For Current Prices see Page 9)

Imports Detained by FDA

Weed Ended March 18

New York

Cassia, 200 bales: filthy.
Coriander seed, 1,640 bags: filthy.
Cream of tartar, 28 barrels: not N.F.
Cumin seed, 128 bags: filthy.
Ergot, 200 bags: filthy; excess moisture.
Fennel seed, 167 bags: filthy.
Karaya gum, 123 bags: filthy.
Marjoram leaves, 320 bags: filthy.
Nutmegs, 250 bags: filthy.
Orange peel, 420 bags: filthy.
Pepper, black, 60 bags: filthy.
Rhubarb root, 15 cases: filthy.
Sesame seed, 2,871 bags: filthy.

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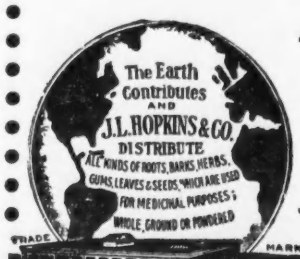
Euphorbia Herb
Hawthorn Berries
Horehound Herb
Juniper Berries
Nux Vomica
Rhatany Root



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easy in undertone but the situation in that respect did not extend to an actual lowering of quotations recently prevailing for spot goods. Prices were generally steady on spot and they were not unsettled in the primary market.

Karaya—More arriving gum was detained by the Food and Drug Administration in its most recent report, the total being 123 bags described by the agency as being filthy. It was apparent that shipping conditions at the origin were far from normal with respect to the careful preparation of goods for shipment to the United States.

Herbs and Leaves

Laurel—Shippers of Turkish leaves refuse to guarantee their goods to pass requirements of the Food and Drug Administration. Since numerous lots have been detained quite often, and since sellers have to pay from three to four cents per pound for reconditioning such merchandise, they have advanced their spot quotation to the basis of 14c. to 15c. per pound in order to protect themselves from possible losses that recleaning might entail if the market had been retained at 11½c. per pound.

Marjoram—Chilean herb was easier and slightly lower at the end of last week, the market being reported on the basis of 17½c. to 18c. per pound. French remained very steady at 32c. to 33c.

Sage—Dalmatian goods brought the fractionally higher price of 22½c. to 23c. per pound last week and more business at that figure was in sight late in the period. Other varieties lacked change.

Sweet Basil—Foreign market prices were such as to warrant maintenance of relatively high levels in local circles where the holdings were not more than conservative. No domestic goods were available in areas where they are cultivated in this country.

Thyme—The season during which consumption by manufacturers of proprietary cough relievers has passed; in the East it was a not too lively period of sales because of the generally clement weather most of the time. Very few transactions in French herb have taken place during the past several weeks, but the local market has not weakened, being maintained in proper relation with replacement cables. The new growing season starts soon abroad.

Miscellaneous

Ergot—Though inactive, the article had a steadier position on spot that the apparent situation in the primary market in the not distant past would suggest as likely. Leading influences in the maintenance of spot prices were the absence of much local competition and the failure of stocks to exert much selling pressure on the selling trade as a whole.

Irish Moss—The supply was sufficient to meet any expansion in requirements. Cables concerning shipment parcels from France have not been received here steadily for some time past, nor have the French pressed the sale of their Irish moss extract.

Papain—The spread in sellers' price views was on the wide side, but it covered to a considerable extent alleged differences in quality of merchandise offered in local circles. Current demand was reported as being mainly routine and not the sort that would produce distant needs of buyers.

Roots

Belladonna—This quarter can report receipt of several inquiries concerning methods of cultivation and the outlook for consumption by the domestic manufacturers during 1949. The fact that there has been successful cultivation of belladonna after many disappointments and losses is bringing the usual result of success; desire to profit by the successful enterprise of others persists in this unsettled, topsy-turvy world. Given proper land, climate, seed, and skill that will produce a high test end product, there remains for new producers merely the problem of persuading manufacturing consumers to contract in early Spring for goods to be delivered next Fall.

Blood—According to some local reports, considerable portions of goods remaining unsold at the origin are of subnormal quality. Some of such merchandise sold into consumption was recently rejected by the purchaser. Some operators near the origin do not have complete facilities that alone guarantee normal quality merchandise, it was said.

Dandelion—Some fair sized quantities of root were bought last week to come forward from Europe for the account of local dealers. The price paid was not exception-

ally reasonable though the shippers did accept a bid in order to book the business.

Ipecac—No weakness was noted at most primary market points supplying this root to domestic dealers. Local quotations were steady to firm as a reflection of the well maintained prices at the origins. Stocks on spot were in firm hands.

Jalap—The spot market has eased once again and whole was priced at 40c. to 45c. per pound last week, while for powder the asking price was 45c. to 55c. per pound according to seller and test. Competition played more a part in trade than it had in the recent past and conditions were more favorable for buyers.

Mandrake — Interest of manufacturing consumers centered mainly on the prospects for production and prices in the primary market during the months directly ahead. Production in 1948 was sufficiently low to permit expansion in demand to send prices kiting during the late Summer months. Nothing remotely resembling weakness can be descerned to the West at this time.

Rhubarb—Demand was rather quiet but the local market did not weaken in the matter of its price views. Sellers maintained quotations in firm style and in line with replacement costs.

Seeds

Anise—Chinese star anise was shaded to 13c. to 13½c. per pound. The other materials in the group did not change.

Caraway—Quotations were easier and subject to shading as the result of slow sales and fast competition when firm orders were in sigh. Danish seed was down to 18¼c. to 18¾c. per pound and Dutch touched 18½c. to 19c.

Cardamom — High prices and scarcity prevailed and seemed destined to annoy both buyers and sellers for an indefinite period of time. Most goods were offered for future delivery only. Coorges were $2.10 to $2.20; decorticated, Guatemalan, $2.15 to $2.20; green, Alleppey, $2.20 to $2.25.

Celery—A fair sized demand was noted but it consisted mainly of jobbing requirements readily supplied out of better than moderate stocks. Replacement cost for either French or Indian seed was steady to firm.

Dill—Dewhiskered seed was a fraction lower at 10c. to 10½c. per pound, mainly because little interest was being shown by those upon whom quantity transactions depend most of the time.

Poppy—Polish material was shaded a fraction to the basis of 16½c. to 17c. per pound and only routine buying took place. Quotations on other varieties of material lacked quotable change.

Sesame — Only Chinese hulled seed changed price and that article was substantially cheaper on the basis of 20c. to 21c. per pound.

Spices

Cassia—Batavia longstick was reduced to 30c. to 31c. per pound and some shortstick came on the market at 25c. to 26c. Selected but broken Canton rolls made a new low at 7½c. to 8c. Saigon spice remained free from any shift in quotations.

Cinnamon — Competition continued to push spot quotations lower, with an assist in that respect to be credited to replacement cost developments. Spot quotations on the No. 2 grade reached 21c. to 22c. per pound.

Clove—Cables reports a further and very sharp advance in shipment quotations named from Madagascar. The market there was 19c. to 19½c. per pound asked. On receipt here, a potential buyer bid around 17c. The 1948-49 crop in the islands was reported to be not in excess of 2,800 tons, according to the latest advice from the origin. Earlier estimates had suggested 3,500 to 4,000 tons as likely. Lack of workers was caused by a shortage in rice which caused the laborers to migrate to points where food was available.

Large shipments have been made to Saigon and Singapore, an amount of 2,783 tons being mentioned in this export account. This was 1,400 tons of old crop and a similar amount of the new. The stocks left in Madagascar were said to be 1,800 tons.

Mace—Competition continued to force prices down and at the end of last week Siauw No. 1 was quoted at 83c. to 84c. per pound; West Indian broken, 65c. to 66c. It was not certain that No. 1 Banda and Amboyna could not be bought at shaded prices.

Pepper—Some of the steam that recently forced sharp rises in quotations was diverted into steam of the exhaust variety and for the most part the prices in general showed advances that were vastly more conservative than they had been in black pepper during the past fortnight. Spot went to 95c. and was nominal; nearby futures were around 86c. to 87c.; March shipment, 84c. to 85c.; April shipment, 83c. to 84c.; May shipment, 82c. to 83c. White pepper on spot was a museum piece and was considered nominal at $1.15 to $1.20—a price that drove small buyers out of the market. April shipment was $1.12 to $1.15.

Spice Traders to Meet

The American Spice Trade Association will hold its annual meeting at the Edgewater Beach hotel, Chicago, Ill., on May 9 to 11.

Katz Gets UJA Committee Post

Emanuel Katz, president of San-Nap-Pak Manufacturing Company, has been elected chairman of the drugs, perfumes and cosmetics division of the United Jewish Appeal of Greater New York.

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Essential Oils, Other Aromatics

If the search for improvement in business was broad and thorough, it was possible last week to find reliable authority saying a gain in sales for the account of flavor requirements had taken place within conservative limits. In fact, one quarter went so far as to declare that "it is not bad right now." However, by going "just around the corner," so to write, it was easy to find dealers who declared that demand was still slow; that buying for inventory purposes was not current; that volume consisted mainly of small orders; and that competition was very keen because of the acute appetite of dealers for orders. Oddly, a revival of the almost forgotten habit of reporting scarcities took place, camphor oil, cardamom, dillweed, geraniums, distilled ginger, and bergamot being so noted. Clove was also up. The price index was affected entirely on the upside because of special scarcities. It rose 2.3 points to 104.8, in comparison with 145.3 a year ago when the index was off 0.8 point.

The future of events, it was said, would in no small measure be influenced by the overall consumption of cosmetics and perfumes. Both of those industries normally consume substantial quantities of floral oils and products, together with the bulk of aromatic chemicals sold into manufacturing consumption. Total sales of finished cosmetics and perfumes have decreased in point of dollar volume at least. Some areas of the country have found a consumer swing to low or moderate priced products of the perfumer and cosmetician. Luxury items have a narrowing sales outlet that corresponds with the tendency of takehome pay to contract in labor circles. But it cannot be said that the cost of selling essential oils and aromatic chemicals has dropped; overhead is as high as ever.

Market Trends

Prices Advanced

Camphor oil, natural, 7c. per lb.
Clove oil, Madagascar, buds, 10c. per lb.
Geranium oil, Bourbon, 75c. per lb.
Ginger oil, distilled, $2.50 per lb.

Prices Reduced

Cedarwood oil, dms., 5c. per lb.
Dillweed oil, 25c. per lb.

Comparative Price Indexes

(100 August 1, 1914)

Last week	Prev. week	Last month	Last year
104.8	102.5	103.6	145.3

(For Current Prices see Page 9)

Essential Oils

Angelica—Regardless of the not very active request, prices for this material remained without change last week nor were there any signs of any pending development along that line. Also, the extraordinarily wide range noted for some time was not the least disturbed—though sales at the high end of the range were not confirmed during the period reviewed.

Anise—Price activity appeared to have come to an end. In the place of more or less constant shifting of the opinions of individual dealers there prevailed a deal of stability to price views, a condition supported fairly well by current demand.

Bergamot—Though the advance was not extended any further, the position of natural oil was one of real strength and it seemed to be based mainly on the position of oil at the origin than on any substantial expansion of takings out of spot stocks.

Birchtar—Stocks were very small; most essential dealers did not hold any goods. Also, demand was light and reached the few holders of prompt delivery oil only occasionally last week. Prices were reported to be generally on a steady basis.

Bois de Rose—Jobbing business made up the not large bulk of local sales during the past week. Lack of a wider interest on the part of manufacturing consumers had no further softening effect on quotations. The prices appeared to be steady to firm, according to dealer and to be backed with more than sufficient stocks wherewith to meet more than the current needs of buyers.

Camphor—Comment has been made here with respect to the steady arrival of substantial quantities of Japanese or Chinese natural oil. The effect of the betterment of supplies was again noted last week when quotations for oil in drums were reduced to 30c. per pound. The range, according to dealer, was to 45c. per pound for small quantities; those so quoting on small lots had 40c. as a price minimum. It was noted, however, that the general comment regarding supply centered usually on "not too much" or "not too plentiful."

Cardamom—Stocks of this oil were, apparently, smaller than might be generally realized. Comment last week was that the high cost of raw material, plus its relative scarcity, was responsible for the present pinch on supply. The price range was $35 to $40 per pound. Good quality oil was said to sell more or less readily but was, according to some, hard to get. Others said no raw material was available.

Cassia—Trading was routine at all times last week, consisting usually of calls for small quantities that about covered jobbing needs of a not large number of buyers. Prices continued to be steady on spot, being held thereto more by replacement cost than by spot trading with consumers. Stocks were of sufficient size.

Cedarwood—The market has eased again under the absence of supporting demand of a broad character. The quotation in drums was as low as 35c. per pound but some named as high as 50c. Stocks were reported in large supply and demand was not very active. Some said it had fallen off considerably and the best report indicated it to be not better than steady.

Celery—The generally stable position of raw material was fully reflected in quotations for spot delivery oil. The supply was ample in all quarters and needs were routine mainly because little need to cover distant needs prevailed.

Clove—The latest reports concerning the supply of spice in Madagascar indicated that the actual crop fell far short of the estimates made not too long ago. It appeared that labor was a real problem since there was hardly enough rice to go around. Producers' quotations on oil from Madagascar buds were higher at $1.25 to $1.35 per pound; Zanzibar buds, steady at $1.60.

Dillweed—The fact that one spot quotation was as low as $8.25 per pound meant little since the supply was admitted to be very short at the present time. Demand was steady in some quarters, strong in others, but it was certain that most buyers had greater interest in what will be done on new crop than they did in the immediate price position of the limited spot stock.

Eucalyptus—Conditions did not suggest that consumption would be materially expanded in the nearby future. Some feared that total production had been reduced permanently by effecting competing materials. Stocks here and at primary market points were plentiful.

Geranium—Bourbon geranium oil was a very strong item. The article was in very low supply and showed a high replacement cost at the origin. Quotations on the spot ranged $9.50 to $11.25 per pound and it was difficult to find two dealers with identical price ideas. Algerian had a wider price range, being $9.50 to $12 as to dealer and some quarters not openly quoting last week were of the opinion that the market was subject to an early rise. Others admitted that stocks of Algerian oil have dwindled badly. According to the U. S. consul at Tananarive, Madagascar, reported that in October, 1948, Reunion Island exported 9,500 kilos, net. The report did not break down in destination points.

Ginger — The high prices already reached by raw material found reflection in local quotations on distilled ginger oil last week. Minimum on the spot was $10 per pound and not much oil could be obtained thereat. In quarters where the oil is produced, a more accurate reflection of price views was $11 to $11.50. Some dealers withdrew entirely from offering oil on the open market. Others reported discontinuation of the item until shortage and high price of raw materials shall have been succeeded by normality in both respects. The cost of ginger root is especially influential on the selling price of oil because the root yields only two to three percent.

Grapefruit — Some quarters intimated that the firsthand market had a tendency to strengthen moderately. In such directions, prices were more steadily maintained regardless of conservative call.

Lavender—Demand has changed little. With the knowledge that stocks were mainly plentiful in most quarters, buyers for consumption traded little in excess of their actual needs. To bring about a higher level of sales volume would probably require a change from plenty to scarcity abroad to the accompaniment of rising shipment quotations.

Lemon—The market changed very little.

For Late Market Developments, See Page 4

Prices were totally without new development and demand altered but little. Some did express the view that some betterment in request might develop between now and mid year but few ventured the opinion that larger request would also mean price improvement. Competition seemed likely to be keen around current levels which were expected to hold so long as supply remains in its present ample position.

Lemongrass — The expected drop in primary market prices had yet to develop but most suppliers of the article held that between April and July buyers would be able to purchase to a substantial price advantage. Stocks seemed ample to meet demand likely to arise between now and such a possible price development.

Lime—Manufacturers of bottled beverages have been somewhat slow in reviving their takings of this oil on a more liberal scale. However, Summer business should be very fair if the general improvement in bottlers' sales is actually experienced. Last Summer, beverage sales were far below normality and a repetition of that in 1949 would be grevious, said raw material sellers.

Nutmeg—Distillers of nutmegs reported still lower prices for their current production, making the market on oil from East Indian nutmegs $4 to $5.35 per pound; West India nutmegs, $4.25 to $4.65. This price development merely reflected what had continued to happen to the cost of raw material at the origins.

Orange—Plentiful stocks were available at prices so low that the dollar returns to dealers left much to be desired in terms of net profits. Oil was relatively cheap but the cost of selling it remained relatively high and its lowering seemed to be a most difficult problem. Local quotations showed no change. Demand was mainly routine and productive of conservative volume.

Peppermint — Open quotations lacked further change. Yet the market could scarcely be called steady; the tendency to shade prices was as persistent as the disposition to buy immediate needs was consistent throughout the consuming industries. However, it was difficult to describe the spot as a "buyers market" no pressure of large stocks existed.

Petitgrain — Business was for jobbing quantities most of the time and not a great deal of that sort of buying was current last week. Stability in replacement cost seemed to account for the relatively sturdy maintainance of spot quotations last week.

Sandalwood—Small lots moved somewhat more often last week and gave the market the appearance of an improvement in general request. However, such gain as did take place was without influence on local quotations last week.

Sassafras — Artificial oil was a trifle more steady; at least, competition failed to break through the price level of 45c to 55c. per pound. Demand was not overly abundant and was for small lots in practically all instances of actual sale.

Snakeroot — Few sellers quoted firm prices and few actually had oil to offer. There were also few orders. A virtually nominal position was reported in practically all directions.

Tansy—Production of this article has all but entirely disappeared; virtualy nothing was made last Summer and the current state of consumption does not suggest much of a change in that respect during that of 1949. Quotations were almost nominal.

Wintergreen—The market was firm in price, limited in activity so far as buyers were concerned, but not subject to weakening competition in local or primary market centers for the supply of natural oil. Also, synthetic material was in good reserve.

Wormseed—Small demand was noted but some improvement may develop as the time for worming livestock ap-

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proaches. Stocks unsold from the 1949 crop were said to be moderate in size.

Wormwood—Absence of pressure stocks and the prospect for a conservative carryover of this article has served to make slightly firmer undertones to prices that govern a quite dull spot market.

Aromatic Chemicals

Amyl Salicylate — Prime quality merchandise was up to $1.03 per pound. The usual article remained available at 77c. Demand was light to moderate in most quarters.

Anethol—The market has steadied considerably and less tendency to look for higher prices was noted on the spot last week. Undertones were generally steady under the support of fair request.

Castoreum—Reports of price shading on this article were noted and around $10 to $10.50 per ounce was suggested. However, confirmed prices with leading suppliers were around $12 for the natural material.

Cinnamic Aldehyde — Small demand was without adverse effect on quotations and the market as a whole was one of steady to firm prices in the absence of any important amount of selling pressure among the leading suppliers of quality merchandise.

Heliotropine — Business was conventional last week and failed to show a needed improvement over that current for some time past. Prices appeared to be generally steady for both domestic and imported merchandise.

Coffee Aroma Synthesized

Alphafurfurylmercaptan, a newly produced hereocyclic aromatic compound, is being offered commercially for the creation of the odor of roasting coffee as a perfume or flavor. It is said also to be useful as a solvent, a polymerization agent, an intermediate for accelerators of rubber vulcanization and other organic chemicals. Its natural odor is intensely that of scallions—it smells like coffee when diluted 1: 1,000,000. That is why its cost ($235 per kilogram in experimental lots) is said not to be a deterrent to its commercial use. The new odorizer is available from Cargille Scientific Inc., 118 Liberty street, New York 6, under the name, "Coffee-Captan."

Chi. Cosmetic Chemists Discuss Oils Production

Dr. Ernest Guenther, technical director of Fritzsche Brothers, Inc., essential oils and aromatic chemicals, New York, was the featured speaker at a recent meeting of the Chicago Society of Cosmetic Chemists. In conjunction with an address entitled "The Production of Essential Oils in the Western Hemisphere," Dr. Guenther exhibited colored motion pictures taken in the various countries covered in the survey.

Spray-a-Wave Co. Names John Roosevelt President

John A. Roosevelt has been appointed president of the Spray-a-Wave Company, a subsidiary of the Lee Pharmacal Company, Chicago and Beverly Hills. He will retain his affiliation with the Roosevelt-Good department store in Beverly Hills.

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Protective Coatings Materials

A variety of price cuts on lead and zinc pigments were announced in last week's market, reductions on the latter materials to become effective April 1. Second quarter decreases include zinc oxides, zinc sulphides and ordinary lithopone. Lowerings, effective during the week, included all chrome colors, except reduced greens, molybdate orange, American vermilion, dibutyl sebacate, diethyl and di-isooctyl phthalates and domestic casein. The price index fell off another 3.0 points to 226.3.

Reflecting the week's 1½-cent decline in metallic zinc, one pigments maker announced the following April 1 decreases:—All lead-free zinc oxides, down three-quarter cent; 5 percent leaded zinc oxide, off three-quarter cent; 35 percent leaded zinc oxide, dropped one-half cent; 50 percent leaded zinc oxide, reduced three-eighth cent; barium-, calcium- and magnesium-extended zinc sulphides, cut one-quarter cent; pure zinc sulphide, decreased one-half cent, and ordinary lithopone, down one-eighth cent per pound. Titanated grades of lithopone were unchanged. Other producers did not immediately go along, but the trade expected similar announcements shortly, probably this week.

Recent drops in metallic lead, which aggregated 3½ cents per pound, produced a variety of reductions in lead-derived dry colors. Off one cent were orange and yellow chromes and American vermilion. Molybdate orange and CP chrome green were down one-half cent per pound. Reduced grades of chrome green remained unchanged.

Producers of alkyd resins viewed with interest the week's 15-cent decline in natural glycerin, and many sellers predicted an early reduction in prices, primarily in the shorter oil-length grades. Both natural resins and shellac were quiet last week.

Dibutyl sebacate listings fell off 2½ cents, matching recent reductions in butanol. One maker of diethyl phthalate announced a price cut ranging from one cent to 1½ cents per pound. One brand of di-isooctyl phthalate was down 1½ cents to 2 cents, but normal dioctyl quotations held firm.

Asbestos supplies were reported very thin here, as the Canadian mines stoppage continued without let-up. Domestic casein was lower by one-half cent to three-quarter cent, but imported continued unchanged. There was practically no interest in either product. Bone glue prices were said to be firmer, although there was no appreciable rise in inquiry. New lower schedules on lead and zinc driers were believed to be in preparation, with announcements expected this week.

Market Trends

Prices Advanced

Turpentine, gum, Savannah, ¾c. per gal.

Prices Reduced

Casein, dom., acid-precip., ½c. to ¾c. per lb.
Dibutyl sebacate, 2½c. per lb.
Diethyl phthalate, 1c. to 1½c. per lb.
Di-isooctyl phthalate, 1½c. to 2c. per lb.
Green, chrome, CP, all grades, ½c. per lb.
Orange, chrome, CP, 1c. per lb.
Molybdate, ½c. per lb.
Red, vermilion, American, 1c. per lb.
Yellow, chrome, CP, 1c. per lb.

Comparative Price Indexes

(100—August 1, 1914)

Last week	Prev. week	Last month	Last year
226.3	229.3	235.2	182.8

(For Current Prices see Page 9)

Prime Pigments

Antimony Oxide—Supplies continued plentiful during the past week. Demand remained as sluggish as ever. Prices were maintained.

Black, Carbon—The Bureau of Mines reported January production of all grades at 106,000,000 pounds, compared with 112,342,000 pounds during December and 114,566,000 pounds in January, 1948. January shipments totaled 94,024,000 pounds, as against 104,728,000 pounds during the preceding month and 108,225,000 pounds in January, last year. Producers stocks at the close of January aggregated 128,296,000 pounds, opposed to 116,320,000 pounds in December and 78,745,000 pounds in January, 1948. Exports during January, as reported by the Department of Commerce, totaled 28,950,000 pounds, compared with 23,125,000 pounds in December and 20,117,000 pounds in January, last year.

Brown, Sap Crystals—Makers looked for an influx of orders with the turn of the quarter. Last week demand, though a little better, was still considerably below par. Supplies continued excellent. Prices were maintained.

Brown, Umber—Quotations remained on a par with previous levels last week. Calls were still moderate, but a rise in inquiry was anticipated shortly. Stocks were plentiful.

Brown, Vandyke—In ample supply, this pigment material was in modest demand during the past week. Listings were without variance.

Green, Chrome—In the wake of recent declines in pig lead aggregating 3½c. per pound, producers last week announced reductions of ½c. on all CP grades. Reduced colors were maintained at previous listings. The current market price on CP green ranges from 37½c. to 48¼c. per pound, while schedules on reduced grades remain at 13c. to 29¼c. Meanwhile, demand was quiet during the week. Stocks were more than ample to cover trade requirements. Producers looked for a heightening of interest within the next week or so when Spring painting operations get into full swing.

The Bureau of Census reported January production of CP greens at 780,000 pounds. This output compares with 1,059,000 pounds produced during December and 985,000 pounds manufactured in January, 1948.

Lead Pigments—A new method of quoting on metallic lead in New York, announced last week by one seller, stirred considerable comment in last week's market. According to a company announcement, pig lead quotations henceforth will be based on the weekly average of selling prices as reported by a minerals trade journal. It was the consensus of pigment makers that this innovation would make no real difference insofar as the color market is concerned, although it was conceded in some quarters that metal buyers and sellers alike would be compelled to take cognizance of this new method of computation.

Meanwhile, the price structure of pigments stabilized at lower levels following recent declines. Stocks were still reported ample to meet trade requirements, although an influx of business was expected to develop within the next two weeks. Demand during the past week was on the quiet side.

Orange, Chrome—Reflecting recent lowerings in pig lead, prices of the CP grade last week were decreased 1c. per pound. The new quotation is 33c. per pound. Demand, meanwhile, remained slow, but was due for a rise within the next week or so. Inventories were heavy.

Orange, Molybdate — Following recent weakness in metallic lead quotations, schedules on this pigment material were lowered ½c. per pound during the week. The new market price is 44½c. per pound. Meanwhile, calls were light, as supplies continued excellent. Demand was expected to perk up within the next few weeks when paint manufacturers begin Spring grinding operations.

The Bureau of Census reported January output at 446,000 pounds. This compares with 542,000 pounds produced during December and 490,000 pounds manufactured in January, last year.

Red, Iron Oxide — Prices of Persian Gulf and Spanish oxide remained on a par with pervious levels last week. No changes were anticipated. Calls were still light, but resumption of activity was expected after the turn of the quarter. Supplies were viewed as adequate.

Red, Mercuric Oxide — Listings held firm, as quicksilver continued steady at $87 to $89 per flask. Stocks were plentiful, and demand was quiet.

Red, Vermilion—Reflecting recent price drops in pig lead, quotations on the American grade of this pigment last week were lowered 1c. per pound. The new quotation is 33c. per pound. Consuming interest was still sluggish during the week. Stocks were good.

Yellow, Chrome — In line with recent lowerings in metallic lead, prices of the CP grade last week were decreased 1c. per pound. The new quotation is 33c. per pound. Demand was quiet during the week, but business was expected to improve shortly. Supplies were reported plentiful.

Production of CP yellow and orange chrome colors during January totaled 3,958,000 pounds, according to the Bureau of Census. This compares with 4,791,000

For Late Market Developments, See Page 4

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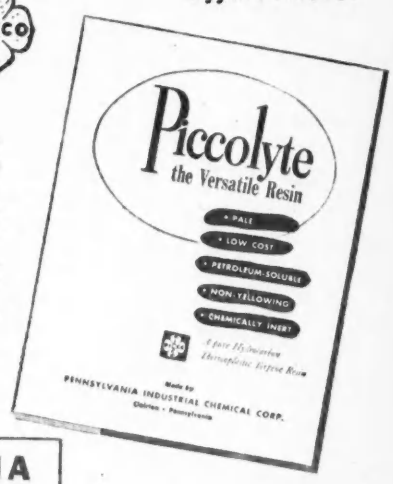

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pounds produced in December and 4,076,000 pounds in January, 1948.

Yellow, Zinc—Despite the week's 1½c. reduction in metallic zinc, prices of this pigment material held firm at 24½c. per pound. It was expected the metal savings would ultimately be passed along to pigment customers, but not until differentials could be worked out.

The Bureau of Census reported January output at 204 short tons, compared with 432 tons in December and 308 tons in January, 1948.

Zinc Pigments—Following closely upon the heels of a 1½c. drop in metallic zinc, one maker of pigments late last week announced a variety of April 1 reductions. Beginning with the second quarter, all lead-free zinc oxides will be ¾c. per pound lower, as will 5 percent leaded oxide. Reduced ½c. and ⅜c. per pound are 35 percent and 50 percent leaded zinc oxides, respectively. Down ¼c. per pound are barium-, calcium-, and magnesium-extended zinc sulphides. Pure zinc sulphide will be down ½c. Ordinary lithopone is off ⅛c. per pound, but titanated grades continue unchanged. Other producers did not immediately follow suit, but similar announcements were expected shortly, probably this week. Meanwhile, zinc dust held firm, but this material also was believed due for an early fall.

Fillers and Extenders

Calcium Carbonate—Importations during the past week totaled 800 bags of whiting from Antwerp. The market was otherwise unchanged, as stocks continued ample and demand remained quiet.

Magnesium Silicate—Arrivals last week were reported at 500 bags of talc from Genoa.

Mica—Imported during the period under review were 1,861 cases of mica from Rio de Janeiro, Calcutta, Buenos Aires and Luanda.

Synthetic Resins

One alkyds producer last week reduced seven grades ½c. to 4c. per pound, while at the same time upping one grade ¼c. per pound. One maker of pure phenolics, meanwhile, lowered one grade of that line 2c. per pound. Consuming inquiry continued slow.

Meanwhile, alkyds makers viewed with interest declines of 15c. per pound in natural glycerin, bringing that material into line with quotations on the synthetic product. Pentaerythritol listings held firm. Although it was still too early to forecast the exact effect of the glycerin decline upon the resins market, the trade believed that it would ultimately produce a lowering in alkyds, primarily the shorter oil-length grades.

Natural Resins

Importations during the past week aggregated 810 bags and 175 cases of dammar gum from Singapore and 901 bags of copal from Manila, Matadi and Singapore. Trading continued slow. Prices were maintained.

Shellac—Buying continued at a minimum in last week's market, as both New York and Calcutta quotations held steady. Stocks of the better orange lacs were said to be quite scarce in this country, partic-

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Pounds per gallon....8.0
Oil miscibility....Excellent
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Air dry—setting time....Slow
Hardness....Good
Flexibility....Excellent
Gloss....Excellent
Gloss retention....Excellent
Color retention....Excellent
Water resistance....Excellent
Oil & gasoline resistance Excellent
Weather resistance....Excellent
Specific gravity....1.05
Phthalic anhydride....24%
Rosin or derivatives....None
Phenolic resins....None
Oil acids content....60%
Type of oil....Soya
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ularly lemon No. 1 and lemon No. 2. Reports on the forthcoming Bysacki crop were still vague. Bleached grades were quoted at 67½c. to 70c. for bonedry and 77½c. to 80c. for refined. Lemon No. 1 brought 71c. to 72c.; lemon No. 2 commanded 69c. to 70c.; superfine lac was at 65c. to 66c., and TN shellac was priced at 62c. to 63c. per pound. Arrivals during the past week totaled 500 bags of kireelac, 4,410 bags of seedlac and 1,955 bags of shellac from Calcutta, Bangkok, Antwerp and Hamburg.

Lacquer Materials

Dibutyl Sebacate—Reflecting recent declines in butanol, prices of this plasticizing material were lowered last week a flat 2½c. per pound. Business was reported to be quiet, and supplies were ample. Current quotations follows:—Drums, carload, 55½c.; l.c.l., 56c., and tanks, 54c. per pound.

Diethyl Phthalate—Decreases of 1c. to 1½c. per pound were announced by one manufacturer during the week. Other makers did not go along, and, as a result the following ranges existed at press time:—Drums, carload, 26c. to 27½c.; l.c.l., 27c. to 28c., and tanks, 24½c. to 26c. per pound.

Di-isooctyl Phthalate—Reductions of 1½c. to 2c. per pound were effected by one producer last week. Other sellers did not immediately go along, and, as of press time, it was uncertain whether or not they would take similar action. As a result, a range exists in the market. Following are going prices:—Drums, carload, 43c. to 44½c.; l.c.l., 43½c. to 45½c., and tanks, 41½c. to 43c. per pound.

Dioctyl Phthalate—Quotations on this plasticizer were firm during the week despite the decline in di-isooctyl phthalate. Current schedules call for 43c. to 45½c. per pound.

Of further interest in this section was the announcement that a new producer has entered the field. This manufacturer, already a maker of polyvinyl elastomers, is a newcomer in the plasticizer field.

Miscellaneous Materials

Asbestos—With operations at all Canadian mines at a standstill because of the six-week-old strike, supplies in this country were reported very slim. Long fibers were practically non-existent, while shorts, though in a somewhat better position, were very short. Prices were maintained. Arrivals during the past week totaled 18,805 bags of asbestos from Lourenco Marques and Leban.

Casein—The domestic material fell off another ½c. to ¾c. per pound during the week, despite additional government purchases of milk solids. Imported casein held steady. Domestic was quoted at 21¾c. to 22½c., while imported brought 21¾c. to 22c. per pound. There was little interest in either material, as buyers held back in expectation of further lowerings. Calls for substitute products continued on the upswing. Arrivals last week aggregated 2,000 bags of casein from Buenos Aires.

Out of offerings of 11,574,525 pounds of spray process skimmed milk powder, Commodity Credit Corporation on March 18 purchased 6,136,350 pounds. CCC also brought 3,047,653 pounds of roller process skimmed milk powder out of 3,949,563 pounds.

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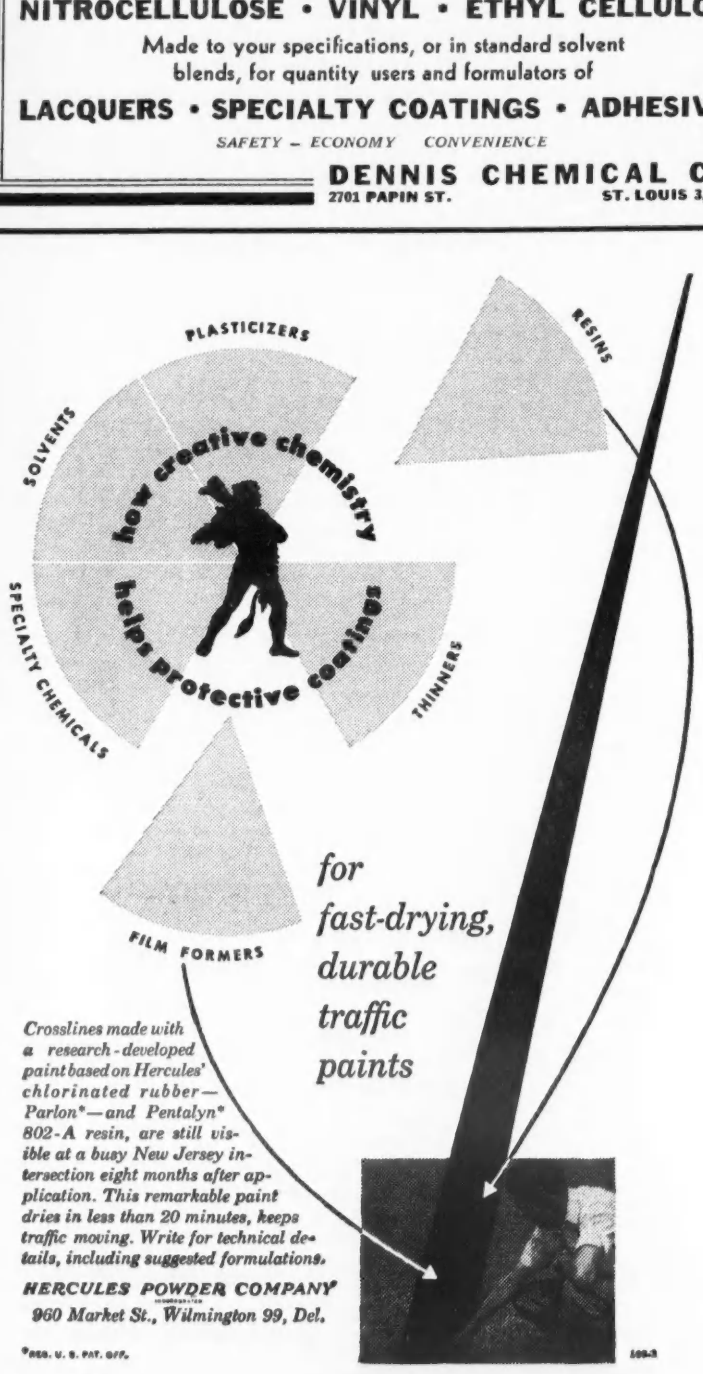

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grades was still considerably short of supply, prices were viewed as firmer. Stocks were plentiful. Hide grades were similarly firm, but short. Importations during the past week totaled 104,823 pounds and 1,300 bags of bones from Havana and Brisbane and 199 bales and 7,811 bags of gluestock from Buenos Aires, Parnahyba and Rio de Janeiro.

Lead Driers—New lower schedules, expected to reflect the most recent 1½c. drop in pig lead, failed to materialize last week.

Zinc Driers—Prices remained firm, but reductions were expected to be announced shortly as a result of the week's 1½c. decline in metallic zinc.

Naval Stores

The records of the gum naval stores markets over the week ended March 25 were as follows:—

Gum Rosin

	Price per 100 lbs.						
	Savannah Exchange (Low of range)					New York c.l., l.c.l., f.o.b. ex N. Y. whse.	
	Mon.	Tues.	Wed.	Thurs.	Fri.		Friday
B	$5.85	$5.85	$5.85	$5.85	$5.85	$7.00	$7.75
D	5.85	5.85	5.85	5.85	5.85	7.00	7.75
E	5.85	5.85	5.85	5.85	5.85	7.00	7.75
F	5.85	5.85	5.85	5.85	5.85	7.00	7.75
G	5.85	5.85	5.85	5.85	5.85	7.00	7.75
H	5.85	5.85	5.85	5.85	5.85	7.00	7.75
I	5.85	5.85	5.85	5.85	5.85	7.00	7.75
K	5.85	5.85	5.85	5.85	5.85	7.00	7.75
M	5.85	5.85	5.85	5.85	5.85	7.00	7.75
N	5.90	5.90	5.90	5.90	5.90	7.05	7.80
WG	5.95	5.95	5.95	5.95	5.95	7.10	7.85
WW	6.05	6.05	6.05	6.05	6.05	7.20	7.95
X	6.05	6.05	6.05	6.05	6.05	7.20	7.95
	Drums						
Sales	...	...	...	...	...		
Receipts	30	501	175	21	150		
Shipments	...	...	10	...	1,795		
Stocks	20,693	21,194	21,359	21,380	19,745		

Gum Turpentine

	Savannah Exchange—Bulk					New York (ret. dms.) tanks l.c.l. f.o.b. ex N.Y. whse. (7 lbs.)	
	Mon.	Tues.	Wed.	Thurs.	Fri.		Friday
Per gal.	.40¼	.40¼	.41½	.41	.41	.47½	.58
Sales, bbls.	...	...	20	240	...		
Receipts, bbls.	257	10	332	18	487		
Shipments, bbls.	168	...	163	3	1,155		
Stocks, bbls.	16,060	16,070	16,237	16,253	15,585		

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N.Y. Paint Technicians Nominate 1950 Officers

The nominating committee of the New York Paint and Varnish Production Club has proposed the following for office for the year 1950: — President, C. A. Aloia, Sigmund Ullman Division, Sun Chemical Corporation; vice-president, Ralph W. Charlton, Congoleum-Nairn, Inc.; secretary, Herbert E. Hillman, Eagle Paint & Varnish Works, and treasurer, E. Dale Albert, Keystone Varnish Company.

To be members of the executive committee, the group has named:—W. E. Santoro, Standard Varnish Works; LeRoy D. Soff, Paragon Paint & Varnish Corporation, and Albert R. Smiles, International Paint Company, and as federation representative it has nominated Frederick M. Damitz, National Varnished Products Corporation.

The association will meet at the Building Trades Employers Association on April 7. The featured speakers will be Dr. Mack Sutton and Allen M. Bond jr., of the Girdler Corporation, who will discuss "Application of the Votator Heat Exchanger in the Paint and Varnish Fields."

Flaxseed Screenings Now Under Import Controls

Import controls contained in WFO 63 were extended on March 24 by the Department of Agriculture to flaxseed screenings, scalpings, chaff or scourings through the addition of these items to schedule A of the order. The effect of the action will be to require importers to obtain licenses from the department before these products can be brought into the country.

The department explained that the action is designed to implement the controls now being exercised under the order over flaxseed and linseed oil. The policy will be to grant all applications to import screenings for domestic consumption, provided the flaxseed content is not excessive. By excessive the department means that the screenings shall not contain more than 2 percent of whole kernels or more than 15 percent of flaxseed by weight.

Hilton-Davis Patents New Printing Ink Vehicle

The Hilton-Davis Chemical Company, a division of Sterling Drug, Inc., has been granted a patent on a new polyamine resinous composition used as a vehicle for improving printing inks and varnishes. Inks formulated with acidic resins react to the polyamine substances to make salt resin compositions that provide "improved pigment wetting properties, better viscous stability and may be so compounded as to have better solubility characteristics than the acidic resin compositions," according to patent claims allowed.

Kirk Opens New Plant

The new Portland, Ore., plant of Morris Kirk & Son, Inc., a subsidiary of National Lead Company, was placed into full production on March 21. Plant manager in charge of operations at the new facility is J. K. P. Miller, and regional sales and distribution is under the direction of Delmar C. Wise.

Paint Industry Warns

—*Continued from page 5*

an increase in the carload rating of 14.3 percent, he added, the increased rates constitute a staggering amount. "And in a proceeding that was not designed as a revenue case," he said, "you are promoting, in our opinion, the diversion of paint traffic to forms of transportation other than rail."

Vegetable Oils Ratings Protested

C. L. Bruno, general traffic manager of Spencer Kellogg & Sons, Inc., urged the committee to pay closer observance to ratings found justifiable and prescribed by the Interstate Commerce Commission and, for the most part, found acceptable by the industry.

Speaking of the proposed ratings for vegetable oils, Mr. Bruno noted that 80 percent of his company's oils move wholly within official territory or from western to official territory, and said that the ratings proposed in the railroad committee's docket number 4 "represent an increment which is not justified."

At the outset of his testimony, the speaker registered bitter opposition to the cancellation of exception ratings, but as the committee had no interest other than the prescription of classification ratings, proceeded to detail the reasons for deviation from the proposed ratings. He submitted an exhibit showing the proposed and current ratings, compared with the ratings necessary to preserve the revenue of carriers, which purported to show an increase of 44 percent in the proposed less carload rating within official territory over that said to be necessary to preserve the carriers' revenue.

Solvents, Varnishes Testimony Presented

On the previous week in New York, F. C. Tighe, assistant general traffic manager of Union Carbide & Carbon Corporation, presented a statement regarding the proposed classification ratings for paint, lacquer or varnish plasticizers or solvents; reducing, removing or thinning compounds, and varnishes.

Mr. Tighe's testimony consisted largely of an exhibit detailing the ratings proposed by the committee and the considerably reduced ratings requested by producers as just and reasonable. He noted that the ratings asked by the carriers, if adopted, would have the effect of materially increasing the present ratings under the classification and exceptions, and the ratings suggested by the producers would preserve the existing level of rates in official territory, where the preponderance of movement of his company's products takes place.

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Linseed Oil Statistics Reported by Flax Institute

Linseed oil statistics for the fourth quarter of 1948 have been reported by the Flax Institute of the United States. The report is computed entirely in pounds in accordance with reports received by the institute from the paint and varnish industry that pounds, instead of gallons, would be more compatible with other figures used by the industry. The figures are as follows:—

OCTOBER-DECEMBER

Stocks, September 30	177,488,000
Production	181,729,000
Imports	358,000
Total	359,575,000
Less stocks December 31	226,403,000
Consumption	133,172,000
(Decrease—15.95 percent under 1947)	
Exports	4,892,000

Consumption of linseed oil during the year 1948 amounted to 638,361,000 pounds, an increase of 3.95 percent over 1947. During the year 36,476,143 bushels of flaxseed of both United States and foreign origin was crushed. The United States crop of flaxseed during 1948 amounted to 52,533,000 bushels, less 2,000,000 bushels reserved for sowing, leaving 50,533,000 bushels for consumption. In addition, 1,066,020 bushels were imported during the year.

Mineral Pigments Forms Two New Sales Districts

The Mineral Pigments Corporation, Muirkirk, Md., has established sales offices in the New England and the Minneapolis-St. Paul areas. M. J. Fenton has been appointed manager of the New England district, with headquarters in Boston, and E. Bushnell will direct activities in the Minneapolis-St. Paul area, which includes Minnesota, North Dakota and South Dakota.

The company has also named Murray Kornbluth to take charge of its production of chrome colors and iron blues and Thomas Morris to take charge of production of synthetic yellow, red brown and black iron oxides.

Huber Engages Bissell

Addison H. Bissell jr. has joined the sales staff of the printing ink division of the J. M. Huber Corporation, New York. Mr. Bissell will cover the New York State territory, including the city. He was formerly associated with the Bissell Varnish Company, Bridgeport, Conn.

Goodrich Chemical Co. To Market Plasticizer

The B. F. Goodrich Chemical Company, Cleveland, Ohio, has announced that the first "Good-rite" plasticizer to be marketed by it will be known as GP 261. The dioctyl phthalate product is said to be excellent for vinyl and other synthetic resins, as well as for nitrile type rubber, and to impart heat and light stability, permanent flexibility, low temperature flexibility, resistance to hydrolysis, low water extraction and excellent electrical properties.

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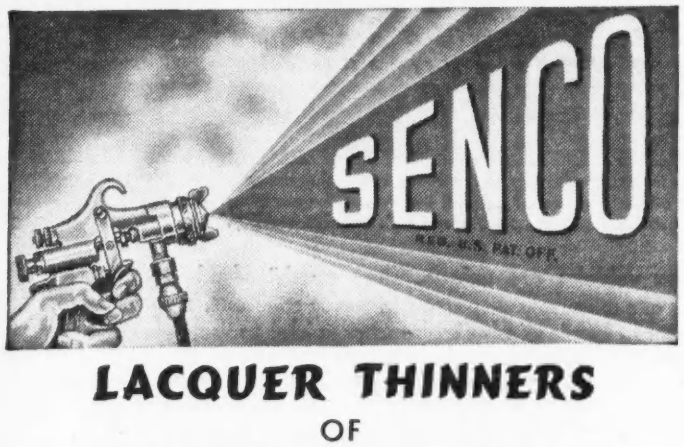

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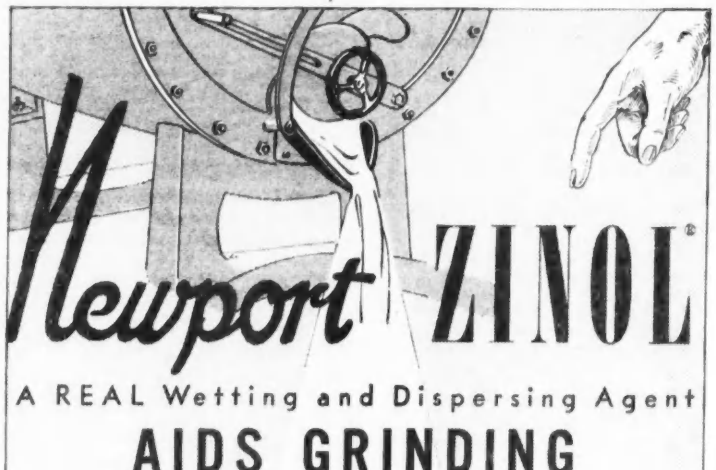
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Oils, Fats and Waxes

This market continued weak last week, and prices broke drastically, especially for tallow, grease and other animal oils. Edible oils also were lower, but not to the extent of the former. Buying interest did not improve at the lower prices and consumers continued to operate in a hand to mouth manner. Price index registered the biggest decline in months and was indicated at 129.0, compared with 148.2 a month ago and 211.3 for this time last year.

With export business practically nil and no improvement in domestic demand, tallow and grease declined 1⅞ cents per pound. Trading was limited at the lower level, with large soapers and small buyers participating. Weakness in western markets also was a contributing factor. The break in tallow and grease was reflected in other animal oils and grease oils, red oil, stearic acid and tallow oil were reduced 1 and 2 cents per pound, while the lower cost of neatsfoot stock reduced the price of the oil, 7 cents per pound.

In the edible oil group peanut oil scored the largest decline—2⅝ cents per pound under increased offerings from crushers, following additional supplies of peanuts made available for crushing by the government. Cottonseed, coconut, corn and soybean oils and lard were off fractionally. Vegetable oil fatty acids were easier and also declined fractionally. Palm oil was off 1½ cents per pound.

Drying oils, except linseed oil also were weaker and lower. Dehydrated castor oil was slashed ¾ cent per pound and oiticica and tung oils ½ cent per pound.

Cottonseed Oil

Heavy selling pressure and liquidation caused bleachable cottonseed oil futures to decline sharply last week, and May, July and September options reached new lows for the season. Market reflected lack of improvement in the quiet consuming demand for refined oil and lower lard and competing vegetable oils. Volume of sales was restricted.

Further weakness carried crude cottonseed oil down ½c. per pound. Buying interest was inactive and light sales were reported at 10½c. per pound, tankcars, in the Southeast and Valley and at 10¼c., Texas.

Disappearance of refined cottonseed oil in January was estimated at 305,400 barrels, compared with 337,970 barrels in December and 352,645 barrels, January last year.

Prices of refined bleachable prime summer yellow cottonseed oil in tankcars on the N. Y. Produce Exchange for the week ended March 25 follow:—

	Sales	Cents per pound High	Low	Close
May	477	13.95	13.02	13.17S
July	576	13.95	13.00	13.15@13.17
September	18	13.05	12.65	12.50@12.80
October	17	13.30	12.30	12.35S
December	2	13.00	12.70	12.10@12.30
January	..	....	....	12.10N
March	..	....	....	12.10N

Total sales—1,090 tankcars.

Memphis.—Crude cottonseed oil was 10½c. bid and 11c. asked, tankcars, Valley. Crude soybean oil sold at 9¾c., same basis. Demand improved for cottonseed meal 41 percent protein, $54.50 per ton, asked prompt shipment and $53.50, April., Soybean meal 41 percent in good demand, March shipment held at $63 per ton, and $60 April, Memphis. Cottonseed cake available at $47 per ton bulk March and $46 April, Mississippi points.

Linseed Oil

Little of new interest transpired in the local market last week. Prospects of purchasing oil next Summer at about 20c. per pound, in tankcars, continued to keep purchases down to drum lots for immediate delivery. It was reported that Eastern consumers bought raw linseed oil at 18c. per pound, tankcars, f.o.b. Pacific coast for June-September shipment. Raw oil was merely nominal at 27.6c. per pound, tankcars and at 28.8c. per pound, drums, carlots. Other drying oils were unsettled. Dehydrated castor oil declined ¾c. per pound, oiticica oil and tung oil ½c., and refined alkali and clarified soybean oils, ¾c. per pound.

PMA indicated purchases of 1,529 tankcars of raw linseed oil at prices ranging from 26.7c. to 28.5c. per pound, f.o.b. mills, depending upon location in their report of March 18.

Market Trends

Prices Advanced

None

Prices Reduced

Castor oil, dehydrated, ¾c. per lb.
No. 3, ½c. per lb., drums
¾c. per lb., tankcars
Coconut fatty acid, ¾c. per lb.
oil, ½c. per lb.
Copra, $10 per ton.
Corn oil, ½c. per lb.
Cottonseed fatty acid, ¾c. per lb.
oil, ½c. per lb.
Grease, 1⅞c. per lb.
oil, 1c. per lb.
Lard, ¾c. per lb.
Neatsfoot oil, 7c. per lb.
Palm oil, 1½c. per lb.
Peanut oil, 2⅝c. per lb.
Red oil, 1¼c. per lb.
Soybean fatty acid, ¾c. per lb.
oil, ½c. per lb.
Tallow, 1⅞c. per lb.
fatty acid, 1c. per lb.
oil, 2c. per lb.
Tung oil, ½c. per lb.

Comparative Price Indexes

(100—August 1, 1914)

Last week	Prev. week	Last month	Last year
129.0	142.3	148.2	211.3

(For Current Prices see Page 9)

Flaxseed—Crushers continued to absorb moderate offers of flaxseed at the support price of $6 per bushel.

Minneapolis.—Announcement of the flaxseed price support at 90 percent of April 1 parity was somewhat confusing to the flaxseed trade. According to the official announcement the parity figure to be used is as of April 1, which actually means the mid-March parity figure which will be announced on March 29. It was understood that parity figure would be determined in April, which led many to believe that the mid-April parity figure would be used. There is still some confusion about the subject but the trade seems to feel that March 15 parity will be used. Figuring on the mid-February parity of $4.14 the loan basis on farms will be $3.73 a bushel and dealers are making their plans on this basis. There is no guarantee of a support price and flaxseed, like all other commodities, will be supported by the local and purchase program, not by contract as has been the case in recent years. This means that there is a possibility that flaxseed might be purchased at prices under the loan level, if farmers wish to sell, and there is a good possibility there will be a more liquid market this fall. Intention-to-plant figure at 4,713,000 acres of flaxseed was a real surprise to the trade as even the most optimistic hardly dared predict more than 4,600,000 acres. Cash flaxseed continued to sell to crushers, not all

For Late Market Developments, See Page 4

Farmers intentions to plant flaxseed in 1949 were indicated at 4,713,000 acres, a decrease of 4 percent from 1948, but 36 percent more than the 1938-47 average. The record was in 1943 when growers planted 6,182,000 acres. The acreage actually planted will be governed to a large extent by price relationships with other crops at the time of planting and also by moisture conditions. The supply of seed available for planting is reported adequate to meet indicated requirements. If the acreage now intended is actually planted and if yields per acre by states are equal to the 1943-47 average, a crop of about 41,500,000 bushels of flaxseed would be produced. This would be 21 percent below the 1948 crop of 52,533,000 bushels, but well above the 1938-47 average production of 30,102,000 bushels.

Minneapolis.—Oil Market held at 27c. per pound, in tanks zone 1 but there was little or no new business as buyers continued to take in the slack in inventories, cut stocks down to an irreducible minimum and otherwise prepare to purchase oil needs for a later date at much lower prices. It is impossible, under present outlook for flaxseed prices, to determine oil values in the forward market but the figure most bandied about is the 18c. price basis. Production continued at a relatively high level, consumers taking about 40 percent of the oil produced and the CCC getting the rest as crushers ship surplus to the government agency.

Shipments of linseed oil, in pounds, were as follows:—

	1948-49	1947-48
This week	5,580,000	7,020,000
Since Sept. 1	156,098,000	207,714,000

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were in the market, at $6 per bushel with surplus going to the CCC.

Shipments of flaxseed, in bushels, were as follows:—

Bushels—	Receipts 1948-49	Receipts 1947-48	Shipments 1948-49	Shipments 1947-48
This week	224,100	136,000	96,900	59,500
Since Sept. 1	26,381,500	18,267,700	5,211,700	3,047,400

Other Vegetable Oils

Castor Dehydrated—Prices of dehydrated bodied were reduced ¾c. per pound to 22¼c. per pound, tankcars and unbodied to 21¼c., same basis. No. 3 oil was also cut ¾c. for tankcars to 17½c. per pound, while drums were lowered ½c. to 18½c. for carlots and 19c. for less.

Coconut—This market continued weak. Demand also was quiet. Prices were off ¾c. per pound, according to delivery. Crude oil was sold at 13¼c., tankcars, f.o.b. Pacific coast, and first half April was offered at the same price. All April was quoted at 13c. same basis.

Copra—Sales were reported at $180 per short ton, c.i.f. Pacific coast, prompt shipment. April-May was offered at $170, same basis. France purchased April-May shipment at $167.50 per long ton, f.o.b. Philippines.

Corn—Trading was inactive. Prices were easier and off ½c. per pound. Crude oil was sold 10¾c. per pound, tankcars, f.o.b. mills. Refined oil also was lower at 13½c. per pound, tankcars, same basis.

Oiticica—Consuming inquiry was at low ebb and the market was easier. Liquid declined to 16c. per pound, drums carlots New York basis, with sales reported of less carlots at the same figure. Solid was quoted at 1c. per pound less.

Palm—Market was lower with competing oils, and quotations declined 1½c. per pound. Tankcars were quoted at 18c. per pound, spot delivery and drums ranged from 19½c. to 20c. per pound, as to quantity.

Peanut—Quotations broke 2⅝c. per pound. Crude oil sold down to 10⅞c. per pound, tankcars, f.o.b. mills. Government offered additional quantities peanuts last week for crushing to make about 20 tankcars of oil. Refined oil was also lower and quoted at 15-15½c. per pound, tankcars, New York delivery.

Soybean—Further declines took place last week. Prices were off ¾c. per pound. Trading was reported fairly active for forward delivery at the lower levels. Crude oil was sold at 9¾c. per pound, tankcars, f.o.b. mills, for March forward shipment, with sellers asking 10c. Refined winterized oil was reduced to 13¼c. per pound, tankcars, New York delivery. Refined alkali and clarified also were cut to 13.55c. and 12.15c. per pound, tankcars, New York basis respectively.

Prices of refined bleachable soybean oil, in tankcars, on the N. Y. Produce Exchange for the week ended March 25 follow:—

	Sales	Cents per pound High	Low	Close
May	..	....	....	11.30B
July	..	....	....	11.15B
September	..	....	....	10.90B
October	..	....	....	10.15B
December	..	....	....	10.15B
January	..	....	....	10.15B
March	..	....	....	10.15B

Total sales—None.

Tung—Light sales were reported at 19½c. per pound, tankcars, New York, basis, a reduction of ½c. Market continued unsettled with consumers operating in a hand to mouth manner. Drums declined to 21¼c. to 21¾c. per pound, as to quantity. Domestic oil was unchanged at 19c. per pound, tankcars, f.o.b. southern mills.

Fats and Greases

Greases—Quiet demand and weakness at western markets caused the market to

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decline sharply — 1⅞c. per pound last week. Trading at lower levels was reported light. Quotations continued nominal. Choice white, 4⅞c. to 5c. per pound, loose delivered; yellow, 4⅝c. and house, 4½c.

Lard—This market continued inactive and weak. Prices declined fractionally and the market remained top heavy. Cash lard was quoted nominally at 10⅞c. per pound, loose Chicago. Army purchased 14,329,280 pounds of refined lard at 13.9c. to 14.15c. per pound, drums delivered New York for foreign relief.

Tallow—This market broke drastically following sales at lower prices in the West. Market declined 1⅞c. per pound with fancy reported sold at 5½c. per pound, loose delivered. Large soapers purchased moderate quantities. Extra was nominal at 5¼c. and special, 4⅞c. same basis.

Animal Oils

Grease Oils—Lower cost of grease and tallow resulted in a decline of 1c. per pound for all grades. Business was quiet. No.1, was quoted at 12½c. to 13c. per pound, drums, as to quantity; extra winter strained, 13½c. to 14c. and prime burning, 14c to 14½c.

Neatsfoot Oil—Cheaper neatsfoot stock resulted in sharply lower prices for oil. Quotations were cut about 7c. per pound. The 15 deg. grade was reduced to 34c. per pound, drums; 20 deg. 33c. and 30 deg. 29c. on the spot.

Tallow Oil — Market was easier and acidless oil was reduced 2c. to 10c. to 10½c. per pound, drums, as to quantity.

Fatty Acids

Coconut, cottonseed and soybean fatty acids declined ¾c. per pound. Coconut fatty acid, single distilled, was quoted at 22½c. to 23½c. per pound, drums, as to quantity; double distilled, 24½c. to 25½c.

Cottonseed fatty acid was offered at 9¾c. to 10¾c. per pound, drums, and soybean fatty acid, single distilled, 11.40c. to 12.20c. per pound, drums. Tallow fatty acid declined 1c. to 11¼c. to 12¼c. per pound, drums, depending upon quantity.

Red Oil—Prices were reduced 1¼c. per pound. Single distilled was quoted at 12¾c. per pound, tankcars and 14c. to 15c. per pound, drums, as to quantity. Double distilled was 2½c. more.

Stearic Acid—Lower cost of tallow and grease resulted in a decline of 1c. per pound. Single pressed was quoted at 16½c. to 17½c. per pound, bags, according to quantity; double, 17c. to 18c. and triple, 19¼c. to 20¼c.

Cake and Meal

Cottonseed Meal—Loose slab 41 percent cake was offered in the Valley at $46.25 to $47 per ton March, and $46 April. Several sales were made on this basis last week. March-April sacked 41 percent meal was offered in North Alabama at $54. Georgia and the Carolinas at $56 to $56.50. There has been a fair business during the last week and some mills in the Carolinas and Georgia are about cleaned out of stock. Georgia and the Carolina mills are still not offering any discount for April shipment.

Linseed Meal — Prices were easier. Trading was restricted to actual needs.

Minneapolis—Demand for meal was slow and prices slipped another cog as crushers quoted $59.50-$60.00 per ton for immediate and nearby shipment and a $59 price for all-April. Meal buying was on a limited scale, though crushers had little difficulty distributing modest amounts, and consumers held stocks at a minimum.

Shipments of linseed meal, in pounds, were as follows:—

	1948-49	1947-48
This week	12,160,000	9,840,000
Since Sept. 1	108,480,000	95,270,000

Peanut Meal—Only a few sales have been made in peanut meal 45 percent on the basis of $65 per ton, South Georgia. Additional peanuts were released for crushing last week, and will produce about 1,000 tons of meal. April 45 percent peanut meal was offered at $63 South Georgia; but not many buyers in the market at the present time. Bids of $60 turned down.

Soybean Meal—Sales of 1,500 tons of 41 percent soybean meal sacked was sold in Mississippi for last half of April at $58, presumably for export.

ECA Announces Additional Procurement Authorizations

New procurement authorizations to Marshall Plan countries announced during the period March 17 through March 23 by the Economic Cooperation Administration totaled $50,705,000, bringing the total of such authorizations to date to $4,850,367,000. Of the new authorizations, $36,175,000 were for purchases in the United States. Among the new authorizations were the following:—

To Austria—$618,000,000 for crude oil and petroleum products, and $5,000 for industrial chemicals other than alcohol from the United States.

To Belgium-Luxembourg—$700,000 for metallic ores and concentrates from Canada, and a decrease of $750,000 for soybean oil from the United States.

To Bizone-Germany—$200,000 for hides and skins from Canada and a decrease of the same amount for the same from Latin America; a decrease of $194,000 for miscellaneous industrial non-ferrous metals from the United States.

To France—$4,334,000 for copper and copper products from Latin America and a decrease of $13,000 for industrial chemicals other than alcohol from Canada.

To Ireland—$1,479,000 for petroleum from Latin America, and decreases of $12,000 for medicinal preparations, $16,000 for leather products and $8,000 for lead products from the United States.

To Netherlands—$12,000 for chemicals and chemical preparations, except fertilizer and synthetic rubber, $178,000 for nickel and nickel products, $447,000 for aluminum and aluminum products, $75,000 for miscellaneous nonferrous metals, all from the United States; $51,000 for oil seeds, $39,000 for vegetable oils and fats, $91,000 for zinc products, and $1,248,000 for hides and skins from Latin America; $100,000 for nonmetallic minerals, except petroleum, from Canada.

To United Kingdom—$3,549,000 for zinc and zinc products and $750,000 for essential oils from the United States.

Glidden Promotes Kolb

The Glidden Company last week elected Clifton M. Kolb senior vice-president and a member of the executive committee. Mr. Kolb has been secretary of the company since 1929.

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2—#8H, #7H Mikro Pulverizers.
2—Day Sifters, 20"x48", 10"x120".
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4—Dopp 250, 150 gal. jacketed Kettles.
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3—Day 12"x32", 16"x10" 3-roll Mills, m.d.
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1—Baker Perkins 100-gal. stainless steel double arm Jacketed Mixer.
1—Baker Perkins 1½ gal. jacketed vacuum Double Arm Mixer.
2—Baker Perkins Lab. Double Arm stainless steel Mixers, 2 gal. cap.
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2—No. 2 Sweetland Filters, 15 leaves.
1—"Jay Bee" 21X Hammer Mill, 30 HP.
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2—Sharples No. 16X S.S. Centrifuges.
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1—Syphon Filler, 8 spout, stainless.
2—Syphon Fillers, 8 spout, bronze.
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3—Ermold Auto. 6-wide Labelers.
3—Auto. Duplex Labelers, Front & Back.
1—Auto. Rotary Duplex Labeler.
4—Auto. Wrap Around Labelers.
6—Semi Auto. Spot Labelers.
1—Standard Knapp Top & Bottom Case Gluer.
4—Acme Elec. op. Case Stitchers.

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2—Mikro Pulverizers, #1SH, Bantam.
2—Day & Abbe Double Jar Mills.
2—Abbe Pebble Mills, 6' x 8'.
1—Allis Chalmers Continuous Ball Mill, steel liner, 8' x 7', complete.
2—Anderson Duo Expellers.
3—Shriver 24" Cast Iron P&F Filter Presses, open dely.
1—Swenson Precoat Rotary Vacuum Filter, 8' x 8', acid proof lead & rubber covered.
1—Sweetland No. 10 C.I. Body, bronze leaves, 500 sq. ft.
1—Aluminum Kettle with coils, jacket and agitator, 1,000 gal.
1—Dopp 300 gal. cast iron jacketed and agitated Kettle.
30—Stainless Steel and Stainless Clad Jacketed Kettles, 30 gal. to 500 gal., 40# and 100# pr.
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1—Buffalo, Double Drum Atmos. Dryer, 32" x 72".

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20—250 gal. Copper, Jacketed, Kettles, open top, with stands, 50" dia. x 42" deep.

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6—Colton 3 DT sgl. punch Tablet Machines, ⅝", V-Belt geared to ½ H.P. motor.

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1—No. 12 Sweetland Filter, 4" centers, iron or copper leaves.
1—No. 10 Sweetland Filter, 2" centers, iron or copper leaves.
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4—24"x48" single ribbon and paddle dry powder mixers.
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1—Oliver Rotary Vac. Filter, 5'4" x 8'.
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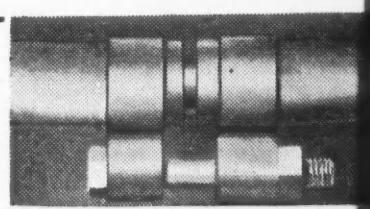

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COPY DEADLINE—Wednesday Noon Preceding Date of Publication

BUSINESS OFFERED

Excellent opportunity for any company wishing to enter paint sundry field. Manufacturer of liquid paint brush cleaner and paint removers wishes to sell out business. Well advertised trade-name, steady repeat business, many well established distributors including major paint companies. OPD 456.

EQUIPMENT OFFERED

Varnish kettle, aluminum, 150 gal., with truck. Emkay Chemical Co., Elizabeth, New Jersey.

One (1) Fletcher, 26 inch, under driven centrifugal, with solid baffled basket, and 3 H. P., 3 phase, 60 cycle, 220 volt, motor, complete with liquid feeding device, etc. Machine tested and guaranteed to be in good running order. R. MacKellar's Sons Company, Inc., 10-24 South Water Street, Peekskill, New York. Phone—Peekskill 860.

Laboratory Testing Instruments—1 40-gram Steinlite moisture tester, suitable testing moisture in powdered or granular material. One Saxl Gelometer, for testing gel strength of gelatine, starch, glue, etc. Excellent condition; exceptional buy. OPD 466.

EQUIPMENT WANTED

30" C. I. closed delivery, wash type plate and frame filter press. State make, condition and price. OPD 470.

FACILITIES OFFERED

Facilities offered for mixing dry chemicals carload and less carload. Also grinding, pulverizing, drying, screening and packing done. Experienced capable personnel. Modern plant with rail siding located Metropolitan New York. Reply OPD 463.

LICENSES WANTED

French chemist, specializing in products for automotive industry with best wholesale, retail connections, seeks manufacturing rights on license basis from American and Canadian producers of related novelty products. Manager visiting U. S. A. April/May. OPD 462.

MATERIALS OFFERED

Consumers of crude drugs & herbs, belladonna, pyrethrum, gum karaya, bees' wax, please contact Drugs of India (Farmers) Ltd., 35, Netaji Subhas Road, Calcutta (India).

Technical Diethylene Glycol, attractively priced; principals only. OPD 460.

MATERIALS WANTED

To manufacturers and jobbers. Are you overstocked? We require immediately large or small lots, many items chemicals, pharmaceuticals, solvents, aromatics, waxes; other supplies. Submit offerings at once. Correspondence treated confidentially. OPD 447.

Will purchase your surplus chemicals, solvents, oils, waxes etc. Highest prices paid. Our rating $500,000. OPD 436.

Permanent Antifreeze wanted in drums, 1-gallon and 1-quart cans; annual contract. Principals only. OPD 459.

PLANTS WANTED

Wanted—Complete plants, also machinery—large engineering firm wishes to acquire several complete plants through purchase of (1) capital stock, (2) assets, (3) machinery and equipment, whole or in part. Personnel retained where possible. Strictest confidence. Box 694, 1474 Broadway, New York 18, N. Y.

POSITIONS OFFERED

Salesman wanted by reputable flavor manufacturer in New York. Salary and commission basis. State age, experience, names of former employers and expected renumeration. Man with knowledge of the flavor business and a following in the trade preferred. All applications will be held in strict confidence. OPD 458.

Salesmen—unusual opportunity—attractive offer. Well established manufacturer of aromatic chemicals, essential oils and perfume compounds has openings for salesmen with knowledge of the business and a following in the trade. Replies will be treated confidentially. Our staff knows about this ad. OPD 437.

POSITIONS WANTED

Resin Chemist: Excellent background, theory and practice on surface coatings resins. Laboratory and production. Well versed also in resin applications. Diligent, resourceful, age 44. M.Ch.E. Prefer New York or New Jersey. Responsible position desired. OPD 461.

POSITIONS WANTED

Development Director, rotogravure and aniline printing inks, lacquers, adhesives for cellophane, plastic films, paper, leather. Eleven years successful experience in development and application of new and improved products. Broad technical knowledge of raw materials. Inspiring leader with understanding of human relations. Business and sales training. Age 36. Interested in position with broader scope. OPD 464.

Sales Engineer, 35, Southern California area, Master's degree, with following in petroleum, chemicals, food and process industries, desires position, salary plus commission with area protection for equipment or maintenance line. Best eastern references. OPD 465.

Ink Factory Manager: Leading company experience. Adept handling Labor-Management problems; skilled by years of performance; knowledge essential raw materials, sources, etc. College graduate. Available only to A-1 concern within 30 days. Strict confidence. OPD 471.

Sales Executive: Intelligent, conscientious executive with outstanding record in petroleum specialty field. National experience organizing territories, training salesmen and working with distributors. Also some financial background. Proven capacity to obtain results, cooperate with associates and build. Now employed. OPD 472.

We BUY and SELL

USED MACHINERY AND EQUIPMENT

Send US Your Inquiries

SINGLE ITEMS OR COMPLETE PLANTS

AARON EQUIPMENT COMPANY

1349 So. Ashland Ave. Chicago 8, Ill.

GOVERNMENT STOCKPILE MATERIAL FOR SALE BY R. F. C.

These materials were purchased by or manufactured for R. F. C. and are now available for public sale. Persons and firms needing them are invited to submit purchase offers at once for quantities required.

CINCHONINE ALKALOID		
	Small Crystals	115,887 ozs.
	Powder	3,602 "
"	SULFATE	81,457 "
"	SALICYLATE	29 "
"	BISULFATE	169 "
"	HYDROCHLORIDE	1,300 "
CINCHONIDINE ALKALOID		
	Small Crystals	92,725 ozs.
	Crystals	652 "
	Powder	1,803 "
"	SULFATE	86,764 "
"	SALICYLATE	739 "
QUININE ARSENATE		1,375 "
"	ARSENITE	124 "
"	FERROCYANIDE	85 "

Offerings and requests for information should be addressed to:

RECONSTRUCTION FINANCE CORPORATION

COMMODITIES BRANCH

44 PINE STREET NEW YORK 5, N. Y.

Telephone: WHitehall 3-3000

Current Prices

—Continued from page 35

Zinc oxide, pigment, Amer. process, 5%, bgs., c.l., ship't point, frt. alld..lb. .15½- —
l.c.l., works.....lb. .15¾- —
35%, bgs., c.l., ship't point, frt. alld...lb. .16½- —
l.c.l., works.....lb. .16¾- —
50%, bgs., c.l., ship't point, frt. alld..lb. .16⅞- —
l.c.l., works.....lb. .17⅛- —
French process, com'l, lead-free, bgs., c.l., ship't point, frt. alld..lb. .17¾- —
l.c.l., works.....lb. .18 - —
green seal, bgs., c.l., ship't point, frt. alld.....lb. .17¼- —
l.c.l., works.....lb. .17½- —
red seal, bgs., c.l., ship't point, frt. alld....lb. .16¾- —
l.c.l., works.....lb. .17 - —
white seal, bgs., c.l., ship't point, frt. alld. lb. .17¾- —
l.c.l., works.....lb. .18 - —
USP, ctns., c.l., ship't point, frt. alld..lb. .18¾- —
l.c.l., same basis.....lb. .19 - —
Zinc oxide Pac. coast prices ¾c. higher; bbl. prices ¼c. higher than bgs.
Phenolsulphonate, NF, gran., bbls., dms. lb. .28 - .29
powd., bbls. .....lb. .31 - .32
Zinc resinate, fused, 1% Zn., dms., frt. alld..lb. .20 - —
precip., dms., frt. alld.....lb. .23 - —
Silicofluoride, bbls., works lb. .10 - .10½
Stearate, tech., USP, ctns., 2,000 lbs. lb. .39 - —
smaller lots .....lb. .40 - —
Sulphate, cryst., 22% Zn. bgs., c.l., works, frt. alld ... 100 lbs. 5.25 - 6.00
l.c.l., same basis...100 lbs. 5.65 - 6.40
flake, 25½%, Zn. bgs., c.l., works. 100 lbs. 6.25 - —
l.c.l., works .....100 lbs. 6.45 - —
powd., 36% Zn. bgs., c.l., dlvd., same basis..100 lbs. 8.50 - —
l.c.l., same basis..100 lbs. 8.90 - —
Zinc sulphate in bbls. 40c. higher
Sulphide, pure, bgs., c.l., dlvd. lb. .13½- —
l.c.l., works ..... lb. .13¾- —
Barium pigment, bgs., c.l. dlvd. lb. .08 - —
t.c.l., works ..... lb. .08¼- —
Calcium pigment, bgs., c.l., dlvd. lb. .06 - —
t.c.l., works ..... lb. .06¼- —
Luminescent pigment, frt. alld. lb. 1.00 - 3.00
Magnesium pigment, bgs., c.l., dlvd..lb. .06 - —
t.c.l., dlvd .....lb. .06¼- —
Zinc sulphide and pigment, Pac. coast prices ¾c. higher; bbl. prices ¼c. higher than bgs.
Yellow (see Yellow, zinc)
Zinc-ammonium chloride, bgs., c.l., works..100 lbs. 7.50 - —
l.c.l., bgs., works.....100 lbs. 7.90 - —
Zinc-cadmium sulphide, fluorescent, cns., frt. alld..lb. 2.00 - 2.80
Zinc-calcium resinate, dms., c.l., works..lb. .1180- .1360
l.c.l., same basis.....lb. .1220- .14
Zinc-formaldehyde sulphoxalate, basic, dms., works.....lb. .24 - .24½
normal, dms., works.....lb. .43 - .45
Zircon (see Zirconium silicate).
Zirconium acetate, solution, bbls., works..lb. .25½- —
Carbonate, basic, cake, bbls., works..lb. .30½- —
Hydride, cns., works.....lb. 7.00 - —
Nitrate, dms., wks.....lb. 1.75 - —
Oxide, 98½-99% white, grd., bbls., or bgs., works ..lb. 1.50 - —
lump, electric-fused, bgs., c.l., works..lb. .44 - —
5 tons, works.....lb. .44½- —
1 ton or less, works...lb. .45 - .48
milled, electric-fused, bgs., c.l., works..lb. .59 - —
5 tons, works.....lb. .59½- —
1 ton or less, works.....lb. .60 - .63
Oxychloride, cryst., ctns., 3 tons, works..lb. .29½- —
Silicate, granular, bgs., c.l., works. lb. .03¼- .03¾
10 tons, works .....lb. .03½- .04
5 tons, works.....lb. .04 - —
1 ton or less, works.....lb. .04¼- .04¾
milled, bgs., c.l., works.....lb. .04¾- —
5 tons, works.....lb. .05¼- —
1 ton or less works.....lb. .05¾- .06¾
refined, bgs., c.l., works....lb. .11 - —
5 tons, works.....lb. .11½- —
1 ton or less, works.....lb. .12 - .16
Sulphate, cryst., ctns., c.l., works lb. .37½- —
5 tons, works.....lb. .38 - —
1 ton or less, works...lb. .38½- .39

Synthetic Resins

The customary monthly listing of prices for synthetic resins and other branded paint materials was printed in the March 7 issue of OPD.

PHARMACEUTICAL PACKAGING MAN

Manufacturer of antibiotics has opening for man experienced in all phases of pharmaceutical packaging. Technical training and thorough knowledge of all types of filling and packaging equipment required. Background should include experience in label and package design as well as supervision of operating personnel. Must be familiar with F. & D. A. rules and regulations. Location Metropolitan New York. Write complete details. Box No. 468, Oil, Paint and Drug Reporter.

Established Cincinnati Firm covering Dayton, Columbus, Indianapolis and Louisville would be interested in representing producers of raw materials used in the paint, ink, rubber, paper or other industries.

Address Box 469
Oil, Paint and Drug Reporter

RECEIVERS' SALE

OF LAND, BUILDINGS, EQUIPMENT, AND INVENTORY

Offers will be received for the assets of Petroleum Marketers, Inc., 140 India Street, Providence, Rhode Island.

This property consists of approximately 22,000 square feet of land with a 240 foot frontage on India Street served by a spur track of the New York, New Haven and Hartford Railroad, as well as, buildings, and improvements consisting of a two-story brick structure 20 by 41 feet, a one-story brick structure 40 by 37 feet, and an adjoining new cement block one-story storage shed 47 by 31 feet.

The property also includes two steel one-story structures, and a loading platform on leased land which has underground tanks with storage facilities of approximately 127,000 gallons capacity.

The receivers are also offering for sale a 1947 Ford two-ton truck, as well as, equipment and fixtures incidental to the mixing and storage of chemicals and a stock of chemicals and lubricating oils which include Synasol, Lard Oil, Naphtha, Sermax Cutting Oil, C. P. Acetone, and others.

Offers if accepted will be subject to the approval of the Superior Court of the State of Rhode Island.

For inspection call the undersigned.

PETROLEUM MARKETERS, INC.

Isadore S. Horenstein, Attorney, 905 New Industrial Tr. Bldg., Prov., R. I. GA 0037

George T. Helm, Co-Receiver, Union Trust Building, Providence, R. I. Tel. GA 0609

J. Clifden O'Reilly, Co-Receiver, Industrial Trust, Providence, R. I. Tel. DE 1155

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Texas Co. Institutes Fellowship

Texas Company instituted a graduate fellowship in micro-chemical analysis at New York University. The purpose of the fellowship will be the study of methods for determining the presence of sulphur in organic materials by micro chemical techniques.

JUST PURCHASED

FROM Merck & Company RAHWAY N. J.

all their declared surplus equipment in Rahway, N. J., MUST MOVE within 30 days. Our Mr. Jasper will be on Premises March 28th, 29th and 30th to dispose of the following Equipment.

NO REASONABLE OFFER REFUSED

GLASS LINED VESSELS

2—Pfaudler 100-gallon Tanks portable, type DI, no bottom outlet.
2—Pfaudler 300-gallon Tanks, type XF, open.
1—Pfaudler 100-gallon Still, type S, jacketed bottom and part way up side, jacket pressure 60#, no agitator or drive.
1—Pfaudler 144, 100-gallon, type S, full jacket, with anchor, agitator and drive.
2—Pfaudler 150-gallon Still, type M, jacketed, bottom section, jacket pressure 75#, no bottom outlet.
1—Pfaudler 150-gallon Still, type M, jacketed bottom and 6" upside, jacket pressure 75#, no bottom outlet.

COPPER VESSELS

1—10-gallon Autoclave, jacketed bottom.
1—60-gallon Still, jacketed, 24" ID x 30".
1—[illegible]-gallon Still, jacketed, 30" dia. x 3" high, jacket pressure 14½#, with agitator.
1—[illegible]-gallon Still, jacketed bottom, 36" dia. x 32" high.
1—1.6-gallon Still, chaisson, jacketed, 36" dia. x 36" high.
1—250-gallon Still, jacketed, 42" dia. x 40" high, jacket pressure 30# with full vacuum in vessel, with anchor agitator.
1—150-gallon Tank, measuring, 28" x 60", having a gauge glass.

ALUMINUM VESSELS

3—100-gallon Kettles, jacketed, 42" dia. x 22" deep, #2-S alloy, special thickness ½", jacket pressure 10#, with cover and agitator, no bottom outlet.
1—25-gallon Receiver, high vacuum, 18" dia. x 21".
1—100-gallon Receiver, high vacuum, 30" dia. x 36", #2-S alloy with gauge.
1—200-gallon Tank, jacketed, jacket pressure 10# with full vacuum in shell.

CARBON STEEL VESSELS

2—3.0-gallon Crystallizers, jacketed, 36" wide x 51" long, jacket pressure 14#, with ribbon agitator and bottom outlet.
1—25-gallon Kettle, jacketed, 30" dia. x 18" deep, jacket pressure 125# internal pressure 15#, with agitator and drive.
1—20-gallon Reactor, 18" dia. x 16", with agitator and drive.
2—5-gallon Stills, jacketed, 18" dia. x 24" jacket pressure 75#, internal pressure full vacuum to 30#, no agitator.
1—50-gallon Still, jacketed, 21" dia. x 26", jacket pressure 75#, internal pressure full vacuum to 30#, with agitator, no drive.
1—150-gallon Still, jacketed, 30" dia. x 18", jacket pressure 50#, with gate type.
1—150-gallon Still, jacketed bottom, 36" dia. x 36", jacket pressure 14#, with bottom outlet.
1—500-gallon Still, 36" dia. x 48" with anchor agitator
2—100-gallon Stills, coil heated
1—10-gallon Tank, 10" dia. x 30".
1—1,000-gallon Tank, 12' dia. x 5' high.
1—50-gallon Tank, no agitator.
1—140-gallon Tank, jacketed, 30" I.D. x 48", jacket pressure 50#, with agitator.
1—180-gallon Tank, jacketed bottom and 36" up side, jacket pressure 25#, internal pressure 75#, with prop. agitator.
2—200-gallon Tanks, 45" I.D. x 30" high, 12" cone bottom with outlet.
3—200-gallon Tanks, baffled, 45" dia. x 30" high, 12" cone bottom with outlet, turbine agitator
1—300-gallon Tank, 45" I.D. x 42" high, 12" cone bottom with outlet, dual agitator.
1—700-gallon Tank, extractor, 45" dia. x 101", with bottom outlet.
1—900-gallon Tank, jacketed, 5' dia. x 6' high, with agitator and bottom outlet.

OTHER VESSELS

1—200-gallon Receiver, iron, 48" dia. x 35".
1—25-gallon Still, s.s., jacketed, 18" dia. x 22", jacket pressure 125# with full vacuum in vessel, with agitator, no drive.
1—50-gallon Tank, lead lined with C.S. jacket, 30" I.D. x 16" cone bottom with outlet, with Nettco #100 drive.
4—200-gallon Tanks, Haveg, with agitator.
1—300-gallon Tank, lead lined with ¼" steel shell, 36" O.D. x 60", internal pressure 15#.

HEAT EXCHANGERS

1—Condenser, 12 sq. ft., C.S. shell, 35 turns ¾" (IPS) S.S. tubing.
1—Condenser, 30 sq. ft., C.S. shell 12" dia. x 61" with ¾" C.S. tubes, U-tube.
2—Condensers 60 sq. ft. C.S. shell 12" dia. x 72" with 38-¾" (IPS) W.I. tubes 6'.
3—Condensers, 60 sq. ft. C.S. shell 12" dia. x 72" with 38-1" (IPS) W.I. tubes 6' long.
1—Condenser 60 sq. ft. C.S. shell 12" dia. x 72" with 38-¾" (IPS) W.I. tubes 6'.
1—Condenser 60 sq. ft. C.S. shell 12" dia. x 72" with 38-1" (IPS) C.S. tubes 6' long.
1—Condenser 60 sq. ft. C.S. shell 12" dia. x 84" with 36-1" W.I. tubes 76" long.
1—Condenser 55 sq. ft., type C, with 60-¾" S.S. tubes 78" long.
1—Condenser, 80 sq. ft. shell 18" dia. x 84" with 48-1" W.I. tubes.
1—Condenser 96 sq. ft. C.S. shell 16" dia. x 81" with 48-¾" C.S. tubes.
1—Condenser 135 sq. ft. C.S. shell 18" dia. x 48" with 121-¾" C.S. tubes.
1—Condenser 185 sq. ft. ammonia, shell 14" dia. x 14' with 20-1¼" tubes.
1—Condenser 197 sq. ft. C.S. shell 10" I.D. x 10'2" with 16-¾" C.S. tubes 8' long.
1—Condenser 264 sq. ft. C.S. shell 14½" I.D. with 112 C.S. tubes.
1—Condenser, C.S. shell 12" dia. x 60" with 62-1" C.S. tubes.
1—Condenser, iron shell 16" dia. x 82" with 26-1½" O.D. iron tubes 7' long.

FILTRATION EQUIPMENT

1—Press, 12", rubber, no plates.
2—Presses, 12", C.I., 12 plates.
1—Press, 18", C.I., no plates.
2—Presses, 24", C.I., 9 plates.
1—Press, 24", wood, 26 plates.
1—Filter, C.S., 10" dia. x 18" deep.

PUMPING EQUIPMENT

1—Simplex Adjust-O-Feeder, 1¼" x 3"-36, 4 GPH min. to 42 GPH max., max. discharge pressure 90# at 48 RPM, pumping paris gray iron, no motor.
1—Adjust-O-Feeder, 1¼" x 3"-30, no motor.
1—Duplex proportioning pump, 1½ GPM and 2 GPM, 3" x 1½" pumping parts S.S. with General Electric motor (4-10772) ¾ HP, 440 V., 3 ph., 60 cy. XP, Class 1, group D.
1—Simplex Adjust-O-Feeder with steam jacket, ¾" x 3"-48, pumping parts S.S., with General Electric motor ¼ HP 110/220 V., 1725 RPM, 1 phase, 60 cycle, XP.
1—Duplex Adjust-O-Feeder, 1½" x 4" and 1" x 3", pumping parts S.S., with motor, ½ HP, 110/220 V., 6.4/3.2 amps., 1725 RPM, 1 phase, 60 cycle, XP, frame 48Y.
1—Simplex Adjust-O-Feeder, 2¼" x 4", 20 GPH min. to 208 GPH max. pumping parts KA2SMO, max. discharge pressure 60# at 43 RPM, with General Electric motor 1 HP, 440V, 1725 RPM, 3 phase, 60 cycle, XP, class 1, group D, including Winfield-Smith #5 R reduction gear.
1—Duplex Adjust-O-Feeder, ¾" x 3" and 1¼" x 3", pumping parts S.S., with General Electric motor, ¼ HP, 110V, 4.0 amps., 1,725 RPM, 1 ph. 60 cy. XP, including Winfield-Smith reduction gear.
1—Duplex Adjust-O-Feeder, 2" x 4" (both ends) with General Electric motor, ½ HP, 115/230V 6.3/3.15 amps., 1725 RPM, 1 ph. 60 cy. 0.2 GPM min. to 2.9 GPM max.
1—Simplex Adjust-O-Feeder, ¾" x 3"-58 pumping parts S.S. with General Electric motor, ¼ HP, 115 v, 3.8 amps, 1725 RPM, 1 ph. 60 cy, frame 48A, mtg. A, type KC.
1—Proportioning pump, 0.372 GPM min. to 3.72 GPM max. single unit, type SAN, with General Electric motor ¼ HP, 110V, 1725 RPM, 1 ph. 60 cy. XP, class 1, group D, type KG-47.
1—Proportioning pump, double unit, type NMD-12, body C.I., plunger S.S., 58.5 GPH (both ends) with General Electric motor ½ HP 440V, 1725 RPM, 3 ph. 60 cy. XP, frame 63A, mtg. H, type K.
1—Proportioning pump, double unit, type LMD-16, body, C.I., plunger, 85.6 GPH (both ends) with Louis Allis motor 1 HP, 220/440V, 3.1/1.55 amps., 1740 RPM, 3 ph., 60 cy., Class 1, code 24, frame 204, type E13, including [illegible] reduction gear type TAA 18 to 1.
1—Proportioning pump, 0.1 GPM min. to 1.05 GPM max. single unit body C.I., plunger S.S., with General Electric motor, 1 HP 220/440V 2.86/1.43 amps., 1725 RPM, 3 ph. 60 cy. mtg. H, type K.
1—Proportioning pump, 45 GPH min. to 120 GPH max. 3" x 4", type 215-DA, with Master Electric motor ½ HP, 115/230V, 5/25 amps., 1725 RPM, 1 ph. 60 cy.
1—Proportioning pump, 1¼" x 4", type 205, with Master Electric motor ¾ HP, 115/230V, 3.8/1.9 amps., 15 GPH min. to 39 GPH max. 1725 RPM, 1 ph. 60 cy., frame 5825, hor. mtg. type RA.
1—Proportioning pump, 1½" x 3", with General Electric motor, ¼ HP, 115V, 3.3 amps., 1725 RPM, 1 ph., 60 cy., XP, mtg.

REFRIGERATION EQUIPMENT

1—Cold box, 3 compartment, low temp. for continuous duty at 40° C, overall dimensions 155" long x 60" wide x 84" high with 8" cork board insulation and galvanized iron lining, 1 door on left end and 3 doors on front, with Tiptman Freon Compressor with water coil, and Louis Allis motor, 5 HP, 220/440 V, 1740 RPM, 3 ph. 60 cy., XP, class 1, group D.

PACKAGING EQUIPMENT

1—Label coder, #6, with Delco motor ⅓ HP, 110 V, 1730 RPM, 1 ph. 60 cy.
1—Label perforator, model #70.31.
1—Label perforator, #65, [illegible] machine.
1—Labeling machine, "Old" World, with Century motor, ¾ HP, 220/440V, 2.4/1.2 amps., 1735 RPM, 60 cy.
1—Labeling machine, World-Junior, with General Electric motor ⅓ HP, 110V, 1725 RPM, 60 cy., type Su.
2—Vial (sterile) storage cabinet, 5' 9" high x 5' 8" long x 2' 6" wide, with 3 shelves of square iron mesh, and doors on both ends with rubber gaskets.
3—Weigh hopper, enameled steel, 8 cu. ft.

TRANSMISSIONS

5—Agitator drive, Nettco #100, with machine cut 4 to 1 ratio gears, loose and tight pulleys, belt shifter, and vertical shaft extended 8½" below base.
2—Reduction gear, shaft speed 5.88 RPM, with Master Electric motor, 5 HP, 220/440V, 860 RPM, 3 ph., 60 cy., Xp.

MISCELLANEOUS

1—Centrifuge overslung type, 26" bronze basket, with Crocker Wheeler motor, 2.4 cu. ft. (approx. cake vol.) 3 HP, 440V, 1150 RPM, 3 ph., 60 cy., XP, class 1.
1—Mixer, tumbling, prism, S.S. 48" I.D. x 60" discharge 42" above floor, with motor 7½ HP, 440V, 3 ph., 60 cy. XP including reduction gear, shaft speed 13.5 RPM. Capacity 325 gallons.
2—Precipitron unit, 600 CFM, with cabinet and power pack, having perforated baffle, 2" mechanical filter, rectifier tubes, and 2-18" cells.
2—Sifter, wood encased on metal stand, pulley drive.

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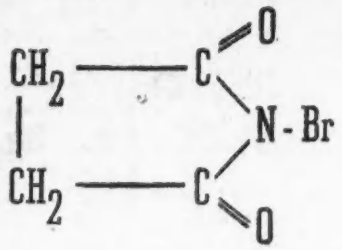

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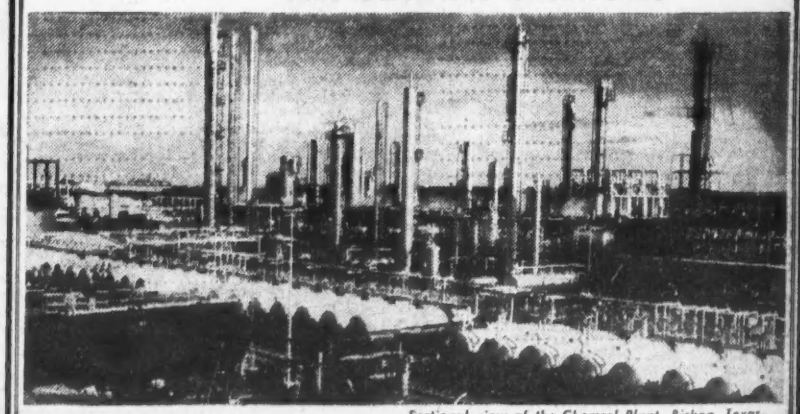

Sectional view of the Chemcel Plant, Bishop, Texas.

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